

Sequence Protocol

1

<110> metaGen Gesellschaft für Genomforschung mbH (Assignee)

<120> Human Nucleic Acid Sequences from Normal Bladder Tissue

<140> PCT/DE99/01163

<141> 1999-04-14

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<212> DNA

<213> homo sapiens

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<211> 1593

<212> DNA

<213> homo sapiens

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<210> 17

<211> 1722

<212> DNA
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<211> 1648
<212> DNA
<213> homo sapiens

<400> 18

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<210> 20

<211> 1610

<212> DNA

<213> homo sapiens

<400> 20

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<211> 1108

<212> DNA

<213> homo sapiens

<400> 21

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<210> 23
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<400> 23

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<210> 24
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 <212> DNA
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<400> 24

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746

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<210> 25
 <211> 217
 <212> DNA

<213> homo sapiens

<400> 25

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<210> 26

<211> 392

<212> DNA

<213> homo sapiens

<400> 26

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<210> 27

<211> 1796

<212> DNA

<213> homo sapiens

<400> 27

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<210> 28

<400> 28

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<210> 29
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 <212> DNA
 <213> homo sapiens

<400> 29

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 <211> 743
 <212> DNA
 <213> homo sapiens

<400> 30

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<210> 31

<211> 1667

<212> DNA

<213> homo sapiens

<400> 31

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<210> 32

<211> 249

<212> DNA

<213> homo sapiens

<400> 32

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<210> 33

<211> 1246

<212> DNA

<213> homo sapiens

<400> 33

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<210> 34

<211> 215

<212> DNA

<213> homo sapiens

<400> 34

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<210> 35

<211> 734

<212> DNA

<213> homo sapiens

<400> 35

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<210> 36

<211> 314

<212> DNA

<213> homo sapiens

<400> 36

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314

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<210> 37

<211> 1839

<212> DNA

<213> homo sapiens

<400> 37

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa
1839

```

<210> 38

<211> 1931

<212> DNA

<213> homo sapiens

<400> 38

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cagccgcccgc ccacccctct ttgtgtgctt tggaaagccg cggagctggt ggtggctaca 60
gttgggtgttg ggggcttagg cgagggacgt taccgggaag ttgcaggcgg gaggactctt 120
ccccatccag tcacctgaca ggtcacaaac atgtcagaca aaagtgaatt aaaggctgag 180
ttggaacgta agaagcagcg actggcccaa atcagagagg aaaagaagag aaaagaagaa 240
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aaacttggaa tggctaaaaa cagcgaagtc gactttcctc ctcgagaaat tgtcacgtat 540
acaaaggaaa ctcagactcc agttatggct caacccaaag aagatgaaga ggaagatgat 600

```

```

gatgtagtgg ctcctaaacc acctattgaa cctgaagaag agaaaacttt aaagaaagat 660
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ttgcactctg aggaattttt aagttttctt gaccattcta caagaattgt agaaagagct 780
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tggccccgacc c

```

1931

<210> 39

<211> 294

<212> DNA

<213> homo sapiens

<400> 39

```

agttaccatt gcctttttctg tctcgtgccg gttttggttt gctgaaacta gtccaaaaca 60
ggaaatttaa cagacagcca cagccaaaga gtgtcatgtg aattacaaga aatagagccc120
atthagggaa agatagaact agaaaggctt ttcattataa ttccatgttg aacaattgag180
tcatagcttc ttatcttgga ggaaggacac aattcaaagg ggcagtaagg attttgtaaa240
acgtggcacc cataatttac tatggagcaa gtgcccacat ctctaggaca ttaa

```

294

<210> 40

<211> 882

<212> DNA

<213> homo sapiens

<400> 40

```

tttttttttc tcattaacaa agcagtcaat tccctttatt tttaaaattt tatgtacaca 60
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agaacatttc acaattacac tcatctttta cataacatct tgacatccat ttttaaattt180
ttttgcacaa gctccttttc attcaatttg gtaaagccag ttatacatat taatgtgtac240
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aatagtcttg gatgggtggg ggaggatggc cacgcagact tgatgcagga gagggaaata360
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cctgcctcat ggtctacagg aggtggcagg ttagacatga ctgatgtaga tgtactgcgg840
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```

882

<210> 41

<400> 41

000

<210> 42

<400> 42
000

<210> 43
<211> 934
<212> DNA
<213> homo sapiens

<400> 43

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ggattttctcc gcctcagccc aacgggggag gctagtgtga catagtgtatt tagatgaaag120
agctattgaa gctttaaaag aattcaatga agacggtgca ttggcagttc ttcaacagtt180
taaagacagt gatctctctc atgttcagaa caaaagtgcc tttttatgtg gagtcatgaa240
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tgaggcaaaa attaaggcac tcttggaag aacaggctac acacttgatg tgaccactgg360
acagaggaag tatggaggac cacctccaga ttccgtttat tcaggtcagc agccttctgt420
tggcactgag atattttgtg gaaagatccc aagagatcta tttgaggatg aacttgttcc480
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tgaagaattt agcaaagtaa cagaggggtc tacagacgtc attttatacc accaaccgga780
tgacaagaaa aaaaacagag gcttttgctt tcttgaatat gaagatcaca aaacagctgc840
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gtttgaattg ggggtgttcc gcttaggaag gttc 934
```

<210> 44
<211> 231
<212> DNA
<213> homo sapiens

<400> 44

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ctcgtgcgcg tcaattatga gttcctttat ttattgggtga gaaagattag caagtatgac 60
gtatgcaagg aatagaagtt atgtaccgag tgggttaaagg ttggggggat atggagatgg120
atgagagggg gctgtctggg aaggctttgc ttcacttggg ttagagtagg gttgcgtgag180
gaaatagggt tgtagaatga gaatgagggt catgacagcc tcctacaaaa c 231
```

<210> 45
<400> 45
000

<210> 46
<211> 240
<212> DNA
<213> homo sapiens

<400> 46

```
cgatcacgtt ttcacatgat gctcacgctc agggcgcttc aattatccct cccacaaaag 60
ataggtggcg cgtgtttcag ggtctctcgt ctctctccta cagaaaagaa aaagaaaaaa120
atgtcattag aagaggcgta acacgtcagt ccgtccccag gtttgtgttt cctggagtgg180
ccgaaaagaga tcagttctaa cctgctctgc aggaataacg gtcctgcctc ccgacactct240
```

<210> 47
<211> 228
<212> DNA
<213> homo sapiens

<400> 47

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agagcagatc agaggcaggg ggaaaagcac gcagagggag gagctgaaga gctgagaccc 60
ggagccaggg acagcttaat gaagacaaac tgaaggggaa actgagatgc ttagaaagcc120
cagctataca actctacca gaaatacttc ccttagggaa tgtaaaaagt actactggag180
```

atggaagagc agaaaaacag ctatgggcag aaggccaagg ggtgatag

228

<210> 48

<211> 1229

<212> DNA

<213> homo sapiens

<400> 48

```

aaaaaaaaa aaaaaagagt taatctagga gataatgaat ggcctagtag tagataatat 60
atggccccac aagctcttga cttctgtcct tggggaaaagc catttttgta accacactag 120
tgagatttac atgatgctta atggagaaca gagaagatct tgttgcaaaa ggtgtattaa 180
atatttgtgc tgtttctgta tgagattgag aagcttttcc cacctctcac ccctatttcc 240
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ctgccctgcc tgacgatgta tcgaaaagat gagagtgaag gagactttgt gcagcaggaa 480
acgggtagggt gaggtgttgg gcagttgtgg gaacttctga gagtattaca gagtggtaga 540
atcggtaaga actctgattt ggacttcgct ttggtggaac tgtgtgccta tacctgcctg 600
tgtgtgtgca agtgtgcagg ttcccttgta tgtatgtgta cgtgtgggaa cctgtgtttg 660
tcataatttt cttcatttca caaaggcttt ttttgaagca gtggcagtat gcctttgttt 720
caagaacaca tgaaattctt ttaacaccag attagtgtgt taccacaaat gaacggttct 780
agccctctat taagaaataa agggaccata agcatttttg ctgcttattg ctgtgtgtta 840
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tacctatgg ctagtgtttt aaatgggcag ttccgttgtg gataaagtat ccagtcactt 1200
caggtttccg tgggaaggtt ttattggggg

```

1229

<210> 49

<400> 49

000

<210> 50

<211> 231

<212> DNA

<213> homo sapiens

<400> 50

```

gaggccggga gtggaacccc ctcttttgag aaggttgcct gactcagaga cacagaaacg 60
ggtccaggga tggggagaga tgtggagtga ggggaaggtt gcatttgaga aagggaagttc 120
gagaacacac tgggacattg taacacattt gaaccatctt ctgatagaaa ggtgttggcc 180
tcctaataat gggaggtcag ggccagggtc tcgggcagat ggagagggtc c 231

```

<210> 51

<211> 1340

<212> DNA

<213> homo sapiens

<400> 51

```

tttggcatca tttacaattt catagaatta ctgtgaaggc ctttctagtt gagatgttgg 60
ggtatttggg attctaattg ttaaccccag aagaaggtaa tttagcttgt atttatatta 120
aaccatttta gccttttact tatacttggt agaattccag tgatcatcct aataaggat 180
atttcagaat aatttttttt tccttcagaa taacttagaa tcagatgcta taagggtctc 240
taggagcagt gtgaaatttc cgtaaagata aatttgaatg ttgtaaccaa gtttatatta 300
aaccaagagg ccatttccaa tatgattttt tgtttctttt taacttgta agtccctaag 360
agattacatg ctagggtttg agtcatttct attgtagata atgatggccc acacagtcac 420
cttcaactat ccacataagc taggcttttc gcttttgcca cggacagtgt gaccaagata 480
tttccagagt aaataaccca ccacaacctt ggtaattcct cttttcttct taagctccag 540
gaagcgaaag cagaaggact cttttcagac tggcctctgt agcctacatt gcagctttcc 600
aaaacaggca gctagcactg ggaaagccca tgtggtgacc ccataatttt ctgaggttct 660

```

```

tctttttccat ggtgttactt tattatcaga aagtaaattc agaaaacagg tcttgccctt 720
agcagacaag aaccacacca gtttcttgta aaggtaacgg atacattggg attcaggagt 780
gacacagagg tccagcccca gaacttgtaa ggattttggt tgaacactga gcagatgcct 840
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aaacaattag ctggacctgg tgggtgcacac tcagtaggct gaggtgaaag gattccttta1260
acatgggaga ctgaagatgc agtgagccat gaatcagcaa ctgcacacca gtatgagaga1320
aaaagtggaa ccctatcaca                                     1340

```

<210> 52
 <211> 226
 <212> DNA
 <213> homo sapiens

<400> 52

```

gccagatttc cgggggtttt cgggccccgc gatgttttcc agaggtttcc aagtgggaag 60
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tccggcgggtg ggggtggacgt ctgatttatg aagggtgcca tccacctatc tgagtacctg180
acttgtgagg actgacaact acagcatcag gtacaaagtt gttctt                                     226

```

<210> 53
 <211> 611
 <212> DNA
 <213> homo sapiens

<400> 53

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gcagctgcag cggcagcagc ggcagcagag gcagcagcag tagccaccac tccgccgagg 60
ccgcaacccc ggctcggcct ccccaggccc cgccgctgcc gcagtcattg ctgctgatgg120
ggtggacgaa cgctcgccct tgctgtcagc atcccactcc ggaaatgtca ctcccaccgc180
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tcccaccag aagggtacaa ggtcgtgtg ttggggcacg gttggggaac acattccctt600
tgggatggga c                                     611

```

<210> 54
 <211> 689
 <212> DNA
 <213> homo sapiens

<400> 54

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tggggcgccg gtagctgttg ctgttggggg accccctcat tccgtccctg gccgtccctg120
ctgcctcctg gcggccatcg gatttcacct gggctgcacc tcagcctgtg tggccgtcta180
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aaatatttca aatacagtaa tgaaagtaaa gcagatcctg ggcagaagct ccagtgatcc360
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tgtagttatt actgtcccgt ttgatttttg agaaaagcaa aaaaatgctc ttggagaagc600
agctagagct gctggattta atgttttgcg attaatcac gaaccgtctg cagctcttct660
tgcttatgga gttggacaag actccccta                                     689

```

<210> 55

<211> 560
 <212> DNA
 <213> homo sapiens

<400> 55

```

agaaaaatgga cgctgacatc aatgtcacaa aagcggatgt tgaaaaggcc cgacaacaag 60
ctcaaatacg tcaccaaagt gcagaggaca gcaaagcaga ttactcatcc attctccaga120
aattcaacca tgagcagcat gaattattacc atactcacat cccaacatc ttccagaaaa180
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gggggccccat tcagcttcag                                     560

```

<210> 56
 <211> 851
 <212> DNA
 <213> homo sapiens

<400> 56

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gaagaagagt aagaaggaca agaaggccaa agctggtctg gagagcgggg ccgagcctgg 60
agatggggac agtgatacca ccagcaaaag aggtagaatt ggtttctgag tagtgaaggc120
cacttgaagc tggaggagaa actaaagcct tattgagaaa acatgttata gatccttttg180
ttgctgagag agtggaaacat aggtcctaga caggggtgaag agttctggca catttttagct240
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gaagaatgtt gtaattttta cttattaaag tcaacttggt aagtttttaa aaaaaaaaaa840
aaaaaaaaaa a                                     851

```

<210> 57
 <211> 1354
 <212> DNA
 <213> homo sapiens

<400> 57

```

cttaccaca gcttttctgc taagttctgt tttttggata tttatgactt ggttcattctt 60
attttttctt gatttagcag gagcccttt ctatttcagt ttcattttca gcatagtagc 120
ctttctatac tttttctata agacttgggc aactgatcca ggcttcacta aggccttctga 180
agaagaaaag aaagtgaata tcatcaccct tgcagaaact ggctctctgg acttcagAAC 240
attttgtaca tcatgtctta taaggaagcc attaagggtca ctccactgcc atgtatgcaa 300
ctgctgtgtg gctcgatatg atcaacactg cctgtggact ggacgggtgca taggttttgg 360
caacctcac tattacatat tcttcttgtt ttccctttcc atggtatgtg gctggattat 420
atatggatct ttcattctatt tgtccagtc tttgtgccaca acattcaaag aagatggatt 480
atggacttac ctcaatcaga ttgtggcctg ttcccttgg gttttatata tcttgatgct 540
agcaactttc cattttctcat ggtcaacatt tttattatta aatcaactct ttcagattgc 600
ctttctgggc ctgacctccc atgagagaat cagcctgcag aagcagagca agcatatgaa 660
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ttctcttcag tgtggctgtc ttggcttggg gaagcctctg gtggttagatt ggacatcaca 780
gtacaccatg gtctttcacc cagccaggga gaaggttctt cgctcagtat gaagaaaagc 840
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gaagtaaaga tttagaattc acctaaagtc aaaggaaaac acgtggtttt taaagccatt 960
aggtaaaaaa agttctcaat aaaggcatta caatttttta ggttttagaaa gatggacttt1020
tctgataaat cttggcagac atctaaaaaa aaaaccatat ttttcacaag aaatgcaag1080

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ttactttttt  tggaaataat  actcactgat  tatggataaa  atggaatatt  ttcagatact1140
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tctttgttgt  atctataaat  atgtaaaaaa  tatttaaaata  gatgtacctg  ttttgctttc1260
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1354

<210> 58
 <211> 268
 <212> DNA
 <213> homo sapiens

<400> 58

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ctccttctag  aagtcctgtc  gtctttgctg  gagaattttt  atttaagcat  cctttttagt180
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268

<210> 59
 <211> 752
 <212> DNA
 <213> homo sapiens

<400> 59

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752

<210> 60
 <211> 1389
 <212> DNA
 <213> homo sapiens

<400> 60

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gagccttcta  tcaccttctg  gaacaaagtc  acttgaaaatc  tottgatgag  attaaggagt 360
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tctggttctc	tattatgtaa	acactattac	agtcaccagt	gtgtgaagac	tcttgagtc1320
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<210> 61

<211> 726

<212> DNA

<213> homo sapiens

<400> 61

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<210> 62

<211> 681

<212> DNA

<213> homo sapiens

<400> 62

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<210> 63

<211> 1116

<212> DNA

<213> homo sapiens

<400> 63

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<210> 64

<400> 64

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<210> 65

<211> 806

<212> DNA

<213> homo sapiens

<400> 65

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<210> 66

<400> 66

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<210> 67

<211> 226

<212> DNA

<213> homo sapiens

<400> 67

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<210> 68

<400> 68

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<210> 69

<211> 2042

<212> DNA

<213> homo sapiens

<400> 69

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2042

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<210> 70

<400> 70

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<210> 71

<400> 71

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<210> 72

<211> 2980

<212> DNA

<213> homo sapiens

<400> 72

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<210> 73
 <211> 227
 <212> DNA
 <213> homo sapiens

<400> 73

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tagtctatcc caggggtaac tgtggagaaa tcattgggtt gagagtcaag agagcattgg180
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<210> 74

<400> 74

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<210> 75

<211> 773

<212> DNA

<213> homo sapiens

<400> 75

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<210> 76

<400> 76

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<210> 77

<211> 870

<212> DNA

<213> homo sapiens

<400> 77

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```

<210> 78

<211> 237

<212> DNA

<213> homo sapiens

<400> 78

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gggagttaac ggataagtcg catctgaagg caggggttca ggctcgtctg tatggaaaca180
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```

<210> 79

<211> 439

<212> DNA

<213> homo sapiens

<400> 79

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ttaaaattag cccttccctt gaaatatgac atcagctttt ctgttctaaa tttaaaatta180
gttgcttcac cagtgcaca cttccagttt ctataccaag ccagtcttct cagttttccc240
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agaggattta aggggaaata cagtgggggg agaattgggt cgggggtaaa ggtagggggac360
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ccggggggggc aaggcaagg 439

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<210> 80

<211> 2483

<212> DNA

<213> homo sapiens

<400> 80

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gatgggtggt agcagtttca ctaagactga tatttttagg ctcttggttca catcaaaaga 720
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agagcttttag gattctagta gatggatac gaatactcag gccacttaa tttattaatg 2400
tatacattgt gtttttgtct ttatgctatg tacagagaaa tgtgataatt tttataata 2460
aatatttttt atgatgataa aag
2483

```

<210> 81

<400> 81

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<210> 82

<211> 353

<212> DNA

<213> homo sapiens

<400> 82

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ttattaaaaat tagcccttcc tttgaaatat gacatcagct ttgctgttct aaattttaa 180
ttagttgctt catcagtacc acacttccag tttctatacc aagccagttc cctcagtttt 240
cccattagaa tggacatgtg ctgttcagcg tgtoatgtct gtaatgcttc atgcagagag 300
tttggtcata gtattaaaga gaaaatacag tgaggtcaca atgtctccag agc
353

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<210> 83
 <211> 1039
 <212> DNA
 <213> homo sapiens

<400> 83

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ctgcactcag aagtctgcag cggtcctca aaaaacttga ttgtgccata aaaatcactg 180
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tatccacccc atcccagact cccaccccag ggattgcccg tgaagacttt ggcctagcaa 480
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tttgaagacc ccaactgccac ctttatggac tggccccctt gagtctgaat ccccggcctc 720
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aaacc catcatctaa ggtgacagag cagtgcctgg aataggcatc ttcctttcaa 960
ccccccaaa actggccaca gataggctgg ccattgggaag ggtctttgga tttcggggga 1020
ggcaaacgtg ggggattgt

```

1039

<210> 84
 <400> 84
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<210> 85
 <211> 330
 <212> DNA
 <213> homo sapiens

<400> 85

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tgagagttta tgcgtcagcc acttcaattt ctgtaaacag aggcacaggc caaggactgt 120
aaggggcaga actagttttt cttcaaaatt gcctaggcat aataaggaaa atagcacttt 180
tattttcaagg aaaccgatgg aatgttcaaa tgaggaagtt gttaatcaag ggcagtcgga 240
tggatcaatg ggtaaatttt aggtggcgct aaggaggggc ttatattcac tcaaaccgga 300
atgttatttt gtcgggccaa ggttggaagg

```

330

<210> 86
 <211> 235
 <212> DNA
 <213> homo sapiens

<400> 86

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aagcaattca atcatggtca agtttccaac tgagtcattt tgtgagtggg taatcaggaa 120
aaatgaggat ccaaaagaca aaaatcaaag acagatgggg tctgtgactg gatctttatc 180
atccattcta aatccgattg aatattgcgg gcttacaaaa tgccaagggg gtgac 235

```

<210> 87
 <400> 87
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<210> 88
 <211> 866
 <212> DNA
 <213> homo sapiens

<400> 88

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caggaccagc ctggccaaca tggcaaaacc ctgtctctac taaaaagtaa aaaaaattag 60
ccgggcatgg tggcttgtgc ttgtagtccc acttcagctc aagtagctgg gactacaggc 120
acgtgccaca agcccagcta atgtgggtgt tttgttagag atgaggtagg gccatattgc 180
ccaggctcgt cttgaacacc ggggctcaag gaatctgccc atcttcgcct cccaaagtcc 240
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agaagaaatg aaagcctggt gtattgtact tcaagatgcc tccctgatgt atagaatctc 780
cttgtaaaat aaataattgc attgtatata agtcttccca tcaatattaa ttattaaata 840
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```

866

<210> 89

<400> 89

000

<210> 90

<211> 846

<212> DNA

<213> homo sapiens

<400> 90

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ttatgccaga aaacaactac ggaataaaaa cccacaaaaa tacagagagg aacgttttta 120
accttttaggg cctgcgtcct ctgccttttg cccatcaggg tcaaagagta ggagttagga 180
aggaagggat gggacagcat cccctgggac gttcaagtac catccctggt ctccactctc 240
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aggtgacgga gttccctttc aagctcgtgc cgaattcggc acgagcgggc acgagctga 480
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gccaaggttg gtagagacaa agcagcaggt ctgagagtc agacgaggtg ctctggctgg 660
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gtcccattcc ttccttcttc actcctaact tttgaccctg atggccaaag ccagagacgc 780
aggccctaaa ggtaaaaacg tctctctgtt attctctggc ttttactccc tagtgtctct 840
gcataa

```

846

<210> 91

<400> 91

000

<210> 92

<211> 1374

<212> DNA

<213> homo sapiens

<400> 92

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cgacatcaac atcgtgcggg tgtcgggcat gcagcgccctg gcgcagctcc tgggagagcc 540

```

```

ggccgagacc cagggcacca ccgaggcccc agacctgcat tgtctcctgg tcacgaaccc 600
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ccggggcaac aaccagtggg tccccctacat ctctcttcag gaacgctgag gcccttccca 720
gcagcagaat ctgttgagtt gctgccacaa acaaaaaata caataaatat ttgaaccccc 780
tcccccccag cacaaccccc ccaaaacaac ccaaccacag aggaccatcg ggggcagagt 840
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gttacttgca cttgttatte gaaccactga gagcgagatg ggaagcatag atatctatat 1320
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<210> 93
 <211> 761
 <212> DNA
 <213> homo sapiens

<400> 93

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gagtggagag gcccgggggc aggaaagcag agacagacaa agcgttagga gaagaagaga 120
ggcaggggag acaagccagg cagcatggcc accttcccac cagcaaccag cgccccccag 180
cagccccag gcccgaggga cgaggactcc agcctggatg aatctgacct ctatagcctg 240
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gctcctccag ggtggcagca acaataaata gacacgcacg gcagcacaaa aaaaaaaaaa 720
aaaaaaaaatcc ttgttaaaaa aaaaaaaaaa aaaaaaaaaa a 761

```

<210> 94
 <211> 1825
 <212> DNA
 <213> homo sapiens

<400> 94

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tagccatggg cacaagagca gcctccactg ggaagtctaa gagtccatgc cagaccctgg 1320

```

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ggggaagggc tctgaaggag aaccagttg acttgccctgc cacagagcaa aaggagaatt1380
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cagtgtgtcc tccgtctctg tgcagctccg tcattaccat aggggacttg gtttttagact1500
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```

1825

<210> 95
 <211> 1374
 <212> DNA
 <213> homo sapiens

<400> 95

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 <213> homo sapiens

<400> 96

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<210> 97
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 <212> DNA
 <213> homo sapiens

<400> 97

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<210> 98
 <211> 3588
 <212> DNA
 <213> homo sapiens

<400> 98

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 <212> DNA
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<400> 99

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 <211> 1303
 <212> DNA
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<400> 100

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<210> 101
 <211> 2333
 <212> DNA
 <213> homo sapiens

<400> 101

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<210> 102

<211> 1377

<212> DNA

<213> homo sapiens

<400> 102

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<210> 103

<211> 315

<212> DNA

<213> homo sapiens

<400> 103

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<210> 104

<211> 2355

<212> DNA

<213> homo sapiens

<400> 104

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<211> 1339

<212> DNA

<213> homo sapiens

<400> 105

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<213> homo sapiens

<400> 106

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3751

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<400> 107

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<400> 108

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 <212> DNA
 <213> homo sapiens

<400> 109

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 <212> DNA
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<400> 111

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<210> 112

<211> 1386

<212> DNA

<213> homo sapiens

<400> 112

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<212> DNA

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<400> 113

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1747

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<211> 1526

<212> DNA

<213> homo sapiens

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<400> 120

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<213> homo sapiens

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<210> 122

<211> 2330

<212> DNA

<213> homo sapiens

<400> 122

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 <212> DNA
 <213> homo sapiens

<400> 123

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807

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 <212> DNA
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<400> 125

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<212> DNA

<213> homo sapiens

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3024

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<211> 505

<212> DNA

<213> homo sapiens

<400> 127

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505

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<211> 115

<212> PRT

<213> homo sapiens

<400> 128

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Thr	Ser	Thr	Ala	Glu	Ile	Arg	Lys	Trp	Tyr	Arg	Phe	Gly	Gln	Ile	Ile
			20					25					30		
Leu	Tyr	Glu	Met	Asp	Pro	His	Thr	Thr	Ser	Phe	Leu	Ile	Gln	Ala	Arg
		35					40					45			

Tyr	Asn 50	Ile	Ile	Pro	Gly	Phe 55	Ser	Lys	Ser	Ser	Gln 60	His	Gly	Tyr	Leu
Cys 65	Tyr	Ser	Val	Leu	Ala 70	Phe	Ile	Ala	Ala	Ser 75	Ser	Phe	Arg	Arg	Ala 80
Phe	Phe	Ser	Lys	Phe 85	Lys	Leu	Val	Lys	Val 90	Ser	Cys	Leu	Trp	Ala 95	Ala
Phe	Leu	Pro	Ser 100	Ile	Thr	Met	Lys	Met 105	His	Pro	Thr	Thr	Val 110	Arg	Ala
Ile	Ile	Arg 115													

<210> 129
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 <213> homo sapiens

<400> 129

Val 1	Arg	Asp	Gly	Ala 5	Pro	Gly	Leu	Ser	Cys 10	Gly	Phe	Val	Gln	Asn 15	Pro
Phe	Ile	Leu	Phe 20	Lys	Ser	Glu	Leu	Leu 25	Val	Ser	Leu	Arg	Asp 30	Glu	Glu
Thr	Ser	Leu 35	Ser	His	Asn	Leu	Lys 40	Gln	Leu	Pro	Ala	Ala 45	Arg	Arg	Arg
Pro	Leu 50	Arg	Leu	Pro	Met	Ala 55	Thr	Cys	Tyr	Ser	Ala 60	Asp	Gln	Arg	Arg
Thr 65	Ser	Pro	Gly	Thr	Val 70	Ala	Leu	Val	Ser	Ser 75	Met	Ser	Pro	Ser	Val 80

Gly Val

<210> 130
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<210> 131
 <211> 53
 <212> PRT
 <213> homo sapiens

<400> 131

Gly 1	Ile	Ile	Thr	Leu 5	Ser	Leu	Leu	Met	Ile 10	Ile	His	Pro	Gln	Met 15	Glu
Glu	Phe	Ile	Arg 20	Gln	Pro	Leu	Gln	Phe 25	Arg	Leu	Lys	Thr	Gly 30	Ala	His

Arg Thr Gln Gly Thr Ile Lys Glu Asp Gln Glu Pro Arg Phe Phe Leu
35 40 45

Ser Lys Asn Trp Pro
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<210> 132
<211> 52
<212> PRT
<213> homo sapiens

<400> 132

Leu Phe Ile Leu Arg Trp Arg Ser Leu Ser Val Ser His Phe Ser Phe
1 5 10 15

Val Leu Lys Gln Glu Pro Thr Gly Pro Lys Glu Leu Leu Arg Arg Thr
20 25 30

Arg Asn Leu Gly Phe Phe Phe Gln Lys Ile Gly Pro Ser Pro Ile Asn
35 40 45

Glu Gly Lys Asn
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<210> 133
<211> 41
<212> PRT
<213> homo sapiens

<400> 133

Lys Lys Lys Pro Arg Phe Leu Val Leu Leu Asn Ser Ser Leu Gly Pro
1 5 10 15

Val Gly Ser Cys Phe Lys Thr Lys Leu Lys Trp Leu Thr Asp Lys Leu
20 25 30

Leu His Leu Arg Met Asn Asn His Gln
35 40

<210> 134
<211> 107
<212> PRT
<213> homo sapiens

<400> 134

Ala Asp Pro Ala Phe Ser Thr Asp Leu Phe Gln Gly Cys Thr Asp Met
1 5 10 15

Ala Ala Ala Phe Arg Lys Ala Ala Lys Ser Arg Gln Arg Glu His Arg
20 25 30

Glu Arg Ser Ser Asp Tyr Arg Lys Lys Gln Glu Tyr Leu Lys Ala Leu
35 40 45

Arg Lys Lys Ala Leu Glu Lys Asn Pro Asp Glu Phe Tyr Tyr Lys Met

							52									
	50						55					60				
Thr	Arg	Val	Lys	Leu	Gln	Gly	Gly	Val	His	Ile	Ile	Lys	Glu	Thr	Lys	
65					70					75					80	
Glu	Glu	Val	Thr	Pro	Glu	Gln	Leu	Lys	Leu	Met	Arg	Thr	Ser	Gly	Arg	
				85					90					95		
Gln	Ile	Tyr	Arg	Lys	Gly	Arg	Gly	Cys	Arg	Ser						
			100					105								

<210> 135
 <211> 63
 <212> PRT
 <213> homo sapiens

<400> 135

Arg	Ile	Arg	Arg	Ser	Pro	Leu	Ile	Phe	Ser	Lys	Ala	Val	Gln	Thr	Trp	
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Arg	Arg	Leu	Phe	Gly	Arg	Arg	Leu	Ser	Pro	Gly	Ser	Gly	Asn	Thr	Glu	
			20					25					30			
Ser	Glu	Ala	Val	Thr	Thr	Val	Lys	Asn	Lys	Asn	Thr	Ser	Lys	Leu	Phe	
		35					40					45				
Gly	Arg	Arg	Leu	Leu	Lys	Lys	Ile	Gln	Met	Asn	Ser	Thr	Thr	Lys		
	50					55					60					

<210> 136
 <211> 87
 <212> PRT
 <213> homo sapiens

<400> 136

Leu	Phe	Trp	Gly	Tyr	Phe	Phe	Leu	Ser	Leu	Leu	Asn	Asn	Met	Tyr	Ser	
1				5					10					15		
Thr	Leu	Glu	Phe	Asn	Pro	Ser	His	Phe	Val	Val	Glu	Phe	Ile	Trp	Ile	
			20					25					30			
Phe	Phe	Lys	Ser	Leu	Leu	Pro	Lys	Ser	Phe	Glu	Val	Phe	Leu	Phe	Phe	
		35					40					45				
Thr	Val	Val	Thr	Ala	Ser	Leu	Ser	Val	Phe	Pro	Leu	Pro	Gly	Leu	Ser	
	50					55					60					
Arg	Leu	Pro	Lys	Ser	Arg	Arg	His	Val	Cys	Thr	Ala	Leu	Glu	Lys	Ile	
65					70					75					80	
Ser	Gly	Glu	Arg	Arg	Ile	Arg										
				85												

<210> 137

<211> 95
 <212> PRT
 <213> homo sapiens

<400> 137

Glu 1	Ala	Asn	Asn	Tyr 5	Met	Ser	Cys	Gln	Gly 10	Gly	Ser	Arg	Phe	His 15	Ser
Phe	Ser	Ile	Leu 20	Pro	Gln	Tyr	Pro	Gly 25	Ile	Asn	Ala	Ala	Thr 30	Gly	Gly
Gln	Ser	Leu 35	Phe	Val	Leu	Leu	Pro 40	Thr	Pro	Ser	Leu	Phe 45	Cys	Leu	Phe
Asn	Ser 50	Val	Lys	Leu	Phe	Cys 55	Leu	Gly	Pro	Gly	Lys 60	Glu	Pro	Lys	Glu
Asn 65	Leu	Ser	Gly	Gln	Val 70	His	Phe	Trp	Asn	Ala 75	Glu	Asn	Ile	Leu	Lys 80
Ala	Arg	Phe	Leu	Glu 85	Tyr	Ser	Gln	Leu	Ala 90	Phe	Phe	Pro	Leu	Ile 95	

<210> 138
 <211> 77
 <212> PRT
 <213> homo sapiens

<400> 138

Asn 1	Ser	Ser	Ala	Ser 5	Ser	Pro	Gln	Phe	Trp 10	Pro	Asn	Ser	Arg	Leu 15	Ala
Val	Phe	Thr	Trp 20	Tyr	Pro	Gly	Val	Gly 25	Leu	Leu	Thr	Leu	Ile 30	Ser	Met
Met	Phe	Ser 35	Lys	Met	Lys	Leu	Asp 40	Lys	Val	Asp	His	Gln 45	Leu	His	Arg
Val	Phe 50	Cys	Lys	Ser	Ile	Val 55	Ser	Lys	Trp	Pro	Arg 60	Asp	Leu	Arg	Lys
Ile 65	Gln	Ile	Phe	Cys	Leu 70	Pro	Trp	Ser	Cys	Phe 75	Lys	Ser			

<210> 139
 <211> 133
 <212> PRT
 <213> homo sapiens

<400> 139

Asp 1	Leu	Lys	Gln	Asp 5	Gln	Gly	Lys	Gln	Lys 10	Ile	Cys	Ile	Phe	Leu 15	Lys
Ser	Leu	Gly	His 20	Leu	Leu	Thr	Ile	Leu 25	Leu	Gln	Lys	Thr	Arg 30	Cys	Ser

Trp	Trp	Ser 35	Thr	Leu	Ser	Ser	Phe 40	Ile	Leu	Glu	Asn	Ile 45	Ile	Glu	Ile
-----	-----	-----------	-----	-----	-----	-----	-----------	-----	-----	-----	-----	-----------	-----	-----	-----

Lys	Val 50	Ser	Asn	Pro	Thr	Pro 55	Gly	Tyr	Gln	Val	Lys 60	Thr	Ala	Ser	Leu
-----	-----------	-----	-----	-----	-----	-----------	-----	-----	-----	-----	-----------	-----	-----	-----	-----

Leu 65	Leu	Gly	Gln	Asn	Cys 70	Gly	Leu	Leu	Ala	Glu 75	Leu	Phe	Tyr	Gly	Leu 80
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Gln	Ser	Lys	Trp	Ser 85	Tyr	Leu	Thr	His	His 90	Met	Thr	Lys	Val	Leu 95	Asn
-----	-----	-----	-----	-----------	-----	-----	-----	-----	-----------	-----	-----	-----	-----	-----------	-----

Leu	Val	Arg	Gly 100	Lys	Val	Leu	Asn	Ile 105	Gln	Phe	Trp	Ile	Gln 110	Glu	Ile
-----	-----	-----	------------	-----	-----	-----	-----	------------	-----	-----	-----	-----	------------	-----	-----

Ile	Ile	Val 115	Asn	Phe	Pro	Phe	Lys 120	Ser	Met	Glu	Arg	Met 125	Leu	Val	Glu
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Asn	Ile 130	Leu	Lys	Ile
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<210> 141
<400> 141
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<210> 142
<400> 142
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<210> 143
<211> 783
<212> PRT
<213> homo sapiens

<400> 143

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Tyr	Thr	Met	Thr 20	Trp	Arg	Met	Gly	Pro 25	Arg	Phe	Thr	Met	Leu 30	Leu	Ala
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Met	Trp	Leu 35	Val	Cys	Gly	Ser	Glu 40	Pro	His	Pro	His	Ala 45	Thr	Ile	Arg
-----	-----	-----------	-----	-----	-----	-----	-----------	-----	-----	-----	-----	-----------	-----	-----	-----

Gly	Ser 50	His	Gly	Gly	Arg	Lys 55	Val	Pro	Leu	Val	Ser 60	Pro	Asp	Ser	Ser
-----	-----------	-----	-----	-----	-----	-----------	-----	-----	-----	-----	-----------	-----	-----	-----	-----

Arg 65	Pro	Ala	Arg	Phe	Leu 70	Arg	His	Thr	Gly	Arg 75	Ser	Arg	Gly	Ile	Glu 80
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Arg	Ser	Thr	Leu	Glu 85	Glu	Pro	Asn	Leu	Gln 90	Pro	Leu	Gln	Arg	Arg 95	Arg
Ser	Val	Pro	Val 100	Leu	Arg	Leu	Ala	Arg 105	Pro	Thr	Glu	Pro	Pro 110	Ala	Arg
Ser	Asp	Ile 115	Asn	Gly	Ala	Ala	Val 120	Arg	Pro	Glu	Gln	Arg 125	Pro	Ala	Ala
Arg	Gly 130	Ser	Pro	Arg	Glu	Met 135	Ile	Arg	Asp	Glu	Gly 140	Ser	Ser	Ala	Arg
Ser 145	Arg	Met	Leu	Arg	Phe 150	Pro	Ser	Gly	Ser	Ser 155	Ser	Pro	Asn	Ile	Leu 160
Ala	Ser	Phe	Ala	Gly 165	Lys	Asn	Arg	Val	Trp 170	Val	Ile	Ser	Ala	Pro 175	His
Ala	Ser	Glu	Gly 180	Tyr	Tyr	Arg	Leu	Met 185	Met	Ser	Leu	Leu	Lys 190	Asp	Asp
Val	Tyr	Cys 195	Glu	Leu	Ala	Glu	Arg 200	His	Ile	Gln	Gln	Ile 205	Val	Leu	Phe
His	Gln 210	Ala	Gly	Glu	Glu	Gly 215	Gly	Lys	Val	Arg	Arg 220	Ile	Thr	Ser	Glu
Gly 225	Gln	Ile	Leu	Glu	Gln 230	Pro	Leu	Asp	Pro	Ser 235	Leu	Ile	Pro	Lys	Leu 240
Met	Ser	Phe	Leu	Lys 245	Leu	Glu	Lys	Gly	Lys 250	Phe	Gly	Met	Val	Leu 255	Leu
Lys	Lys	Thr	Leu 260	Gln	Val	Glu	Glu	Arg 265	Tyr	Pro	Tyr	Pro	Val 270	Arg	Leu
Glu	Ala	Met 275	Tyr	Glu	Val	Ile	Asp 280	Gln	Gly	Pro	Ile	Arg 285	Arg	Ile	Glu
Lys	Ile 290	Arg	Gln	Lys	Gly	Phe 295	Val	Gln	Lys	Cys	Lys 300	Ala	Ser	Gly	Val
Glu 305	Gly	Gln	Val	Val	Ala 310	Glu	Gly	Asn	Asp	Gly 315	Gly	Gly	Gly	Ala	Gly 320
Arg	Pro	Ser	Leu	Gly 325	Ser	Glu	Lys	Lys	Lys 330	Glu	Asp	Pro	Arg	Arg 335	Ala

Gln	Val	Pro	Pro 340	Thr	Arg	Glu	Ser	Arg 345	Val	Lys	Val	Leu	Arg 350	Lys	Leu
Ala	Ala	Thr 355	Ala	Pro	Ala	Leu	Pro 360	Gln	Pro	Pro	Ser	Thr 365	Pro	Arg	Ala
Thr	Thr 370	Leu	Pro	Pro	Ala	Pro 375	Ala	Thr	Thr	Val	Thr 380	Arg	Ser	Thr	Ser
Arg 385	Ala	Val	Thr	Val	Ala 390	Ala	Arg	Pro	Met	Thr 395	Thr	Thr	Ala	Phe	Pro 400
Thr	Thr	Gln	Arg	Pro 405	Trp	Thr	Pro	Ser	Pro 410	Ser	His	Arg	Pro	Pro 415	Thr
Thr	Thr	Glu	Val 420	Ile	Thr	Ala	Arg	Arg 425	Pro	Ser	Val	Ser	Glu 430	Asn	Leu
Tyr	Pro	Pro 435	Ser	Arg	Lys	Asp	Gln 440	His	Arg	Glu	Arg	Pro 445	Gln	Thr	Thr
Arg	Arg 450	Pro	Ser	Lys	Ala	Thr 455	Ser	Leu	Glu	Ser	Phe 460	Thr	Asn	Ala	Pro
Pro 465	Thr	Thr	Ile	Ser	Glu 470	Pro	Ser	Thr	Arg	Ala 475	Ala	Gly	Pro	Gly	Arg 480
Phe	Arg	Asp	Asn	Arg 485	Met	Asp	Arg	Arg	Glu 490	His	Gly	His	Arg	Asp 495	Pro
Asn	Val	Val	Pro 500	Gly	Pro	Pro	Lys	Pro 505	Ala	Lys	Glu	Lys	Pro 510	Pro	Lys
Lys	Lys	Ala 515	Gln	Asp	Lys	Ile	Leu 520	Ser	Asn	Glu	Tyr	Glu 525	Glu	Lys	Tyr
Asp	Leu 530	Ser	Arg	Pro	Thr	Ala 535	Ser	Gln	Leu	Glu	Asp 540	Glu	Leu	Gln	Val
Gly 545	Asn	Val	Pro	Leu	Lys 550	Lys	Ala	Lys	Glu	Ser 555	Lys	Lys	His	Glu	Lys 560
Leu	Glu	Lys	Pro	Glu 565	Lys	Glu	Lys	Lys	Lys 570	Lys	Met	Lys	Asn	Glu 575	Asn
Ala	Asp	Lys	Leu 580	Leu	Lys	Ser	Glu	Lys 585	Gln	Met	Lys	Lys	Ser 590	Glu	Lys

Lys	Ser	Lys 595	Gln	Glu	Lys	Glu	Lys 600	Ser	Lys	Lys	Lys	Lys 605	Gly	Gly	Lys	
Thr	Glu 610	Gln	Asp	Gly	Tyr	Gln 615	Lys	Pro	Thr	Asn	Lys 620	His	Phe	Thr	Gln	
Ser 625	Pro	Lys	Lys	Ser	Val 630	Ala	Asp	Leu	Leu	Gly 635	Ser	Phe	Glu	Gly	Lys 640	
Arg	Arg	Leu	Leu	Leu 645	Ile	Thr	Ala	Pro	Lys 650	Ala	Glu	Asn	Asn	Met 655	Tyr	
Val	Gln	Gln	Arg 660	Asp	Glu	Tyr	Leu	Glu 665	Ser	Phe	Cys	Lys	Met 670	Ala	Thr	
Arg	Lys	Ile 675	Ser	Val	Ile	Thr	Ile 680	Phe	Gly	Pro	Val	Asn 685	Asn	Ser	Thr	
Met	Lys 690	Ile	Asp	His	Phe	Gln 695	Leu	Asp	Asn	Glu	Lys 700	Pro	Met	Arg	Val	
Val 705	Asp	Asp	Glu	Asp	Leu 710	Val	Asp	Gln	Arg	Leu 715	Ile	Ser	Glu	Leu	Arg 720	
Lys	Glu	Tyr	Gly	Met 725	Thr	Tyr	Asn	Asp	Phe 730	Phe	Met	Val	Leu	Thr 735	Asp	
Val	Asp	Leu	Arg 740	Val	Lys	Gln	Tyr	Tyr 745	Glu	Val	Pro	Ile	Thr 750	Met	Lys	
Ser	Val	Phe 755	Asp	Leu	Ile	Asp	Thr 760	Phe	Gln	Ser	Arg	Ile 765	Lys	Asp	Met	
Glu	Asn 770	Gln	Lys	Arg	Gly	Val 775	Phe	Phe	Glu	Gly	Gly 780	Lys	Thr	Pro		

<210> 144
 <211> 87
 <212> PRT
 <213> homo sapiens

<400> 144

Lys 1	Met	Val	Val	Gly 5	Val	Trp	Val	Phe	Leu 10	Arg	Trp	Glu	Arg	Met 15	Cys	
Glu	Asn	Leu	Phe 20	Gln	Gly	Asn	Gly	Phe 25	Ala	Ala	Glu	Val	Arg 30	Met	Cys	
Ser	Cys	Ile 35	Asp	Leu	Gln	Thr	Pro 40	Arg	Arg	Trp	Val	His 45	Thr	Ala	Cys	

Leu	Gly	Val	Pro	Arg	Asp	Ser	58 Arg	Pro	Pro	Thr	Tyr	Leu	Ser	Glu	Ala
	50					55					60				
Arg	Ala	Ala	Gly	His	Gly	Pro	Ser	Ala	Lys	Pro	Val	Cys	Asp	Ala	Leu
65					70					75					80
Gly	Ala	Leu	Val	Gln	Glu	Ala									
				85											

<210> 145
 <211> 97
 <212> PRT
 <213> homo sapiens

<400> 145

Ser	Phe	Ser	Ser	Leu	Gly	Val	Arg	Asn	Thr	Leu	Phe	Ile	Thr	Phe	Lys
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Phe	Ala	Leu	Tyr	Phe	Phe	Ser	Ser	Met	Leu	Val	Leu	Trp	Thr	Phe	Gly
			20					25					30		
Asp	Val	Ser	Val	Arg	Ala	Gly	Glu	Arg	Gly	Val	Arg	Arg	Pro	Ser	His
		35					40					45			
Arg	Trp	Ser	Trp	Pro	Pro	Pro	Ala	Leu	Ser	Ser	Leu	Pro	Asp	His	Arg
	50					55					60				
Phe	Pro	Ile	Cys	Pro	Ser	Glu	Asn	Leu	Ser	Gln	Gly	Glu	Leu	Lys	Phe
65					70					75					80
Thr	Gly	Gln	Gly	Thr	Ser	Phe	Ile	Tyr	Phe	Ile	Met	Leu	Ala	Asn	Arg
				85					90					95	

Thr

<210> 146
 <211> 87
 <212> PRT
 <213> homo sapiens

<400> 146

Ala	Ser	Cys	Thr	Lys	Ala	Pro	Arg	Ala	Ser	His	Thr	Gly	Leu	Ala	Glu
1				5					10					15	
Gly	Pro	Trp	Pro	Ala	Ala	Arg	Ala	Ser	Asp	Lys	Tyr	Val	Gly	Gly	Leu
			20					25					30		
Glu	Ser	Leu	Gly	Thr	Pro	Lys	His	Ala	Val	Cys	Thr	His	Leu	Leu	Gly
		35					40					45			
Val	Cys	Arg	Ser	Ile	Gln	Glu	His	Ile	Leu	Thr	Ser	Ala	Ala	Asn	Pro
	50					55					60				

59

Phe	Pro	Trp	Lys	Arg	Phe	Ser	His	Ile	Leu	Ser	His	Leu	Lys	Lys	Thr
65					70					75					80

His	Thr	Pro	Thr	Thr	Ile	Phe
				85		

<210> 147
 <211> 119
 <212> PRT
 <213> homo sapiens
 <400> 147

Asn	Ser	Lys	Asp	Lys	Cys	Phe	Ser	Leu	Ala	Phe	Ile	Thr	Thr	Pro	Glu
1				5					10					15	
Thr	Glu	Arg	Trp	Arg	Cys	Cys	Ala	Ser	Glu	Pro	Arg	Leu	Leu	Ala	Leu
			20					25					30		
Lys	His	Gln	Gly	His	Arg	Thr	Gln	Ala	Trp	Gln	Arg	Gly	His	Gly	Gln
		35					40					45			
Arg	His	Glu	Leu	Gln	Thr	Ser	Met	Leu	Glu	Val	Ser	Asn	Pro	Leu	Ala
	50					55					60				
Pro	Pro	Ser	Met	Gln	Cys	Ala	Pro	Thr	Phe	Trp	Val	Ser	Ala	Asp	Arg
65					70					75					80
Tyr	Arg	Asn	Thr	Ser	Leu	Pro	Leu	Gln	Arg	Thr	His	Phe	Pro	Gly	Lys
				85					90					95	
Asp	Phe	His	Thr	Ser	Ser	Pro	Thr	Ser	Lys	Lys	Pro	Thr	His	Pro	Gln
			100					105					110		
Pro	Phe	Phe	Lys	Ala	Pro	Arg									
		115													

<210> 148
 <211> 87
 <212> PRT
 <213> homo sapiens
 <400> 148

Ser	Thr	Lys	Gly	Ile	Ala	His	Arg	Leu	Gly	Arg	Gly	Ala	Met	Ala	Ser
1				5					10					15	
Gly	Thr	Ser	Phe	Arg	Gln	Val	Cys	Trp	Arg	Ser	Arg	Ile	Pro	Trp	His
			20					25					30		
Pro	Gln	Ala	Cys	Ser	Val	His	Pro	Pro	Ser	Gly	Cys	Leu	Gln	Ile	Asp
		35					40					45			
Thr	Gly	Thr	His	Pro	Tyr	Leu	Cys	Ser	Glu	Pro	Ile	Ser	Leu	Glu	Lys
	50					55					60				

Ile	Phe	Thr	His	Pro	Leu	Pro	Pro	Gln	Lys	Asn	Pro	His	Thr	His	Asn
65					70					75					80

His	Phe	Leu	Lys	Pro	His	Gly
				85		

<210> 149
 <211> 69
 <212> PRT
 <213> homo sapiens

<400> 149

Asp	Pro	Pro	Ser	His	Ser	Gln	Leu	Gly	Arg	Cys	Cys	His	Arg	Met	Val
1				5					10					15	
Phe	Glu	Ser	Val	Gly	Ala	Arg	Ala	His	Phe	Trp	Leu	Ser	Gln	Gln	Leu
			20					25					30		
Gly	Trp	His	Leu	Leu	Pro	Ser	Ala	Arg	Asn	Ser	Asn	Ile	Met	Asn	Ala
		35					40					45			
Arg	Asp	Ser	Val	Leu	Ser	Lys	Val	Phe	His	Pro	Lys	Gly	Ala	Gly	His
	50					55					60				

Gly	Cys	Ser	Arg	Leu
65				

<210> 150
 <211> 68
 <212> PRT
 <213> homo sapiens

<400> 150

Ser	Ala	His	Leu	Gly	Leu	Pro	Lys	Cys	Trp	Asp	Tyr	Arg	Arg	Glu	His
1				5					10					15	
Pro	Cys	Pro	Ala	Pro	Phe	Gly	Trp	Lys	Thr	Leu	Leu	Ser	Thr	Leu	Ser
			20					25					30		
Leu	Ala	Phe	Ile	Met	Leu	Leu	Phe	Leu	Ala	Leu	Gly	Ser	Lys	Cys	His
		35					40					45			
Pro	Ser	Cys	Cys	Asp	Asn	Gln	Lys	Cys	Ala	Leu	Ala	Pro	Thr	Leu	Ser
	50					55					60				

Asn	Thr	Ile	Arg
65			

<210> 151
 <211> 57
 <212> PRT
 <213> homo sapiens

<400> 151

His	His	Thr	Gln	Pro	Ile	Phe	Val ⁶¹	Phe	Leu	Val	Ala	Thr	Gly	Phe	His
1				5					10					15	
His	Val	Gly	Gln	Ala	Gly	Leu	Glu	Pro	Leu	Thr	Ser	Gly	Asp	Pro	Pro
			20					25					30		
Thr	Leu	Ala	Ser	Gln	Ser	Ala	Gly	Ile	Thr	Gly	Val	Ser	Thr	Arg	Ala
		35					40					45			
Leu	Pro	Leu	Leu	Asp	Gly	Arg	Leu	Tyr							
	50					55									

<210> 152
 <211> 57
 <212> PRT
 <213> homo sapiens

<400> 152

Ser	Ala	Gly	Ile	Pro	Lys	Leu	Ala	Pro	Lys	Ile	Pro	Leu	Pro	Phe	Ser
1				5					10					15	
Asp	Leu	Leu	Lys	Cys	Tyr	Leu	Ile	Ser	Gly	Ala	Phe	Pro	Asp	His	Thr
			20					25					30		
Leu	Lys	Thr	Ser	Thr	Pro	Thr	His	Gly	Pro	Cys	Pro	Pro	Ser	Arg	Leu
		35					40					45			
His	Phe	Leu	Ala	Tyr	Thr	Tyr	Gln	Met							
	50					55									

<210> 153
 <211> 32
 <212> PRT
 <213> homo sapiens

<400> 153

Leu	Lys	Thr	Leu	Leu	Thr	Val	Ala	Ser	Ile	Arg	Val	Ser	Thr	Phe	Tyr
1				5					10					15	
Ser	Ser	Asp	Pro	Thr	Ser	Phe	Asn	Leu	Leu	Leu	Leu	Ile	Tyr	Gly	Gly
			20					25					30		

<210> 154
 <211> 32
 <212> PRT
 <213> homo sapiens

<400> 154

Thr	Lys	Arg	Ala	Val	Met	Lys	Ser	Met	His	Leu	Cys	Ala	Ile	Arg	Ala
1				5					10					15	
Phe	Leu	Val	Pro	His	Ser	Glu	Leu	Ile	Asp	Ser	Asp	Tyr	Ile	His	Phe
			20					25					30		

<210> 155
 <211> 31

<212> PRT

<213> homo sapiens

<400> 155

Gly	Arg	Val	Arg	Ala	Val	Lys	Gly	Arg	His	Ser	Asp	Arg	Ser	His	Ser
1				5					10					15	
Gln	Gln	Cys	Phe	Gln	Ser	Val	Asn	Thr	Asp	Glu	Val	Pro	Thr	Thr	
			20					25					30		

<210> 156

<211> 52

<212> PRT

<213> homo sapiens

<400> 156

Val	Gln	Asn	Val	Met	Ser	Ala	Cys	Asn	Phe	Ile	Phe	Ile	Lys	Ala	Lys
1				5					10					15	
Leu	Ile	Tyr	Met	Glu	Tyr	Cys	Ser	Ile	Tyr	Tyr	Ala	Pro	Ile	Tyr	Ile
			20					25					30		
Leu	Ser	Pro	Val	Val	Arg	Tyr	Phe	Ile	Ser	Leu	Leu	Leu	Asn	Ile	Phe
		35					40					45			
Tyr	Thr	Tyr	Leu												
	50														

<210> 157

<211> 59

<212> PRT

<213> homo sapiens

<400> 157

Thr	Gly	Thr	Phe	Cys	Phe	Phe	Ile	Cys	Cys	Ile	Glu	Asn	Ser	His	Thr
1				5					10					15	
Gln	Phe	Ser	Ile	Leu	Cys	Gln	Cys	Ser	His	His	Gly	Trp	Thr	Leu	Gly
			20					25					30		
Arg	Asn	Ser	Pro	Gln	Pro	Phe	Leu	Val	Ser	Phe	Ser	Gln	Phe	Phe	Ser
		35					40					45			
Val	Ser	Arg	Trp	Ala	Pro	Val	Ile	Asn	Leu	Pro					
	50					55									

<210> 158

<211> 38

<212> PRT

<213> homo sapiens

<400> 158

Leu	Ser	Leu	Cys	Pro	Cys	Trp	Pro	Gly	Asn	Phe	Phe	Gln	Trp	Cys	Leu
1				5					10					15	
Leu	Glu	Glu	Val	Phe	Ser	Ser	Gly	Gln	Phe	Lys	Glu	Ile	Lys	Leu	Gly
			20					25					30		

Asn Gly Glu Gly Gly Arg
35

<210> 159
<211> 33
<212> PRT
<213> homo sapiens

<400> 159

Gly	Ser	Ile	Leu	Asp	Met	Met	Gln	Glu	Ile	Ser	Ser	Trp	Ser	Gln	Lys
1				5					10					15	
Phe	Pro	Arg	Gly	Ala	Val	Phe	Leu	Arg	Asn	Gly	Val	Tyr	Leu	Asn	Asn
			20					25					30		

Ser

<210> 160
<211> 44
<212> PRT
<213> homo sapiens

<400> 160

Lys	Lys	Leu	Pro	Gly	Gln	His	Gly	His	Lys	Leu	Asn	Tyr	Tyr	Leu	Asn
1				5					10					15	
Lys	Leu	His	Phe	Leu	Lys	Ile	Gln	His	Leu	Leu	Gly	Thr	Phe	Asp	Ser
			20					25					30		
Arg	Lys	Arg	Phe	Pro	Ala	Ser	Tyr	Pro	Lys	Cys	Phe				
		35					40								

<210> 161
<211> 225
<212> PRT
<213> homo sapiens

<400> 161

Ala	Ala	Gly	Gly	Leu	Gly	Leu	Gly	Val	Gly	Pro	Arg	Gly	Met	Trp	Arg
1				5					10					15	
Ala	Gly	Ser	Met	Ser	Ala	Glu	Leu	Gly	Val	Gly	Cys	Ala	Leu	Arg	Ala
			20					25					30		
Val	Asn	Glu	Arg	Val	Gln	Gln	Ala	Val	Ala	Arg	Arg	Pro	Arg	Asp	Leu
		35					40					45			
Pro	Ala	Ile	Gln	Pro	Arg	Leu	Val	Ala	Val	Ser	Lys	Thr	Lys	Pro	Ala
	50					55					60				
Asp	Met	Val	Ile	Glu	Ala	Tyr	Gly	His	Gly	Gln	Arg	Thr	Phe	Gly	Glu
65					70					75					80
Asn	Tyr	Val	Gln	Glu	Leu	Leu	Glu	Lys	Ala	Ser	Asn	Pro	Lys	Ile	Leu

85

90

95

Ser	Leu	Cys	Pro	Glu	Ile	Lys	Trp	His	Phe	Ile	Gly	His	Leu	Gln	Lys
			100					105					110		
Gln	Asn	Val	Asn	Lys	Leu	Met	Ala	Val	Pro	Asn	Leu	Phe	Met	Leu	Glu
		115					120					125			
Thr	Val	Asp	Ser	Val	Lys	Leu	Ala	Asp	Lys	Val	Asn	Ser	Ser	Trp	Gln
	130					135					140				
Arg	Lys	Gly	Ser	Pro	Glu	Arg	Leu	Lys	Val	Met	Val	Gln	Ile	Asn	Thr
145					150					155					160
Ser	Gly	Glu	Glu	Ser	Lys	His	Gly	Leu	Pro	Pro	Ser	Glu	Thr	Ile	Ala
				165					170					175	
Ile	Val	Glu	His	Ile	Asn	Ala	Lys	Cys	Pro	Asn	Leu	Glu	Phe	Val	Gly
			180					185					190		
Leu	Met	Thr	Ile	Gly	Ser	Phe	Gly	His	Asp	Leu	Ser	Gln	Gly	Pro	Asn
		195					200					205			
Pro	Asp	Phe	Gln	Leu	Leu	Leu	Ser	Leu	Pro	Glu	Glu	Thr	Val	Val	Lys
	210					215					220				

Ser
225

<210> 162
 <211> 99
 <212> PRT
 <213> homo sapiens

<400> 162

Cys	Arg	Gly	Pro	Gly	Ala	Arg	Arg	Arg	Ser	Pro	Gly	Asp	Val	Glu	Ser
1				5					10					15	
Trp	Gln	His	Val	Gly	Arg	Ala	Gly	Ser	Arg	Val	Arg	Ile	Ala	Gly	Gly
			20					25					30		
Glu	Arg	Ala	Arg	Ala	Ala	Gly	Cys	Gly	Ala	Ala	Ala	Ala	Gly	Ser	Pro
		35					40					45			
Ser	His	Pro	Ala	Pro	Ala	Ser	Gly	Gly	Gln	Gln	Asn	Gln	Thr	Cys	Arg
	50					55					60				
His	Gly	Asp	Arg	Gly	Leu	Trp	Thr	Trp	Ala	Ala	His	Phe	Trp	Arg	Glu
65					70					75					80
Leu	Arg	Ser	Gly	Thr	Ala	Arg	Lys	Ser	Ile	Lys	Ser	Gln	Asn	Ser	Val

85

65

90

95

Phe Val Ser

<210> 163

<211> 120

<212> PRT

<213> homo sapiens

<400> 163

Leu 1	Arg	Ser	Cys	Pro 5	Lys	Leu	Pro	Met	Val 10	Ile	Ser	Pro	Thr	Asn 15	Ser
Arg	Leu	Gly	His 20	Leu	Ala	Phe	Met	Cys 25	Ser	Thr	Met	Ala	Met 30	Val	Ser
Glu	Gly	Gly 35	Arg	Pro	Cys	Leu	Leu 40	Ser	Ser	Pro	Leu	Val 45	Leu	Ile	Trp
Thr	Ile 50	Thr	Phe	Asn	Leu	Ser 55	Gly	Glu	Pro	Phe	Leu 60	Cys	Gln	Glu	Leu
Phe 65	Thr	Leu	Ser	Ala	Asn 70	Phe	Thr	Glu	Ser	Thr 75	Val	Ser	Ser	Met	Lys 80
Arg	Leu	Gly	Thr	Ala 85	Ile	Asn	Leu	Leu	Thr 90	Phe	Cys	Phe	Cys	Arg 95	Trp
Pro	Met	Lys	Cys 100	His	Leu	Ile	Ser	Gly 105	His	Lys	Asp	Arg	Ile 110	Leu	Gly
Phe	Asp	Ala 115	Phe	Ser	Ser	Ser	Ser	Ser	Ser						

<210> 164

<211> 75

<212> PRT

<213> homo sapiens

<400> 164

Thr 1	Ser	Thr	Gly	Pro 5	Ser	Ser	Pro	Leu	Val 10	Ala	Ser	Ala	Ala	Thr 15	Glu
Leu	Ala	Ala	Phe 20	Ala	Ala	Ala	Phe	Ser 25	Ser	Ala	Cys	Met	Arg 30	Pro	Glu
Gly	Ser	Ala 35	Ser	Leu	Phe	Trp	Asn 40	Arg	Leu	Pro	Leu	Leu 45	Met	Phe	Gly
Asp	Leu 50	Gln	Gly	Cys	Glu	Ala 55	Arg	Glu	Gly	Ile	Ala 60	Met	Arg	Ile	Leu
Gln	Ala	Ser	Phe	Ser	Gly	Leu	Ser	Ser	Lys	Gly					

Ala	Pro	Thr	Arg 20	Gly	Leu	Ile	Arg	Ala 25	Thr	Ser	Asp	His	Asn 30	Ala	Ser
Met	Asp	Phe 35	Ala	Asp	Leu	Pro	Ala 40	Leu	Phe	Gly	Ala	Thr 45	Leu	Ser	Gln
Glu	Gly 50	Leu	Gln	Gly	Phe	Leu 55	Val	Glu	Ala	His	Pro 60	Asp	Asn	Ala	Cys
Ser 65	Pro	Ile	Ala	Pro	Pro 70	Pro	Pro	Ala	Pro	Val 75	Asn	Gly	Ser	Val	Phe 80
Ile	Ala	Leu	Leu	Arg 85	Arg	Phe	Asp	Cys	Asn 90	Phe	Asp	Leu	Lys	Val 95	Leu
Asn	Ala	Gln	Lys 100	Ala	Gly	Tyr	Gly	Ala 105	Ala	Val	Val	His	Asn 110	Val	Asn
Ser	Asn	Glu 115	Leu	Leu	Asn	Met	Val 120	Trp	Asn	Ser	Glu	Glu 125	Ile	Gln	Gln
Gln	Ile 130	Trp	Ile	Pro	Ser	Val 135	Phe	Ile	Gly	Glu	Arg 140	Ser	Ser	Glu	Tyr
Leu 145	Arg	Ala	Leu	Phe	Val 150	Tyr	Glu	Lys	Gly	Ala 155	Arg	Val	Leu	Leu	Val 160
Pro	Asp	Asn	Thr	Phe 165	Pro	Leu	Gly	Tyr	Tyr 170	Leu	Ile	Pro	Phe	Thr 175	Gly
Ile	Val	Gly	Leu 180	Leu	Val	Leu	Ala	Met 185	Gly	Ala	Val	Met	Ile 190	Ala	Arg
Cys	Ile	Gln 195	His	Arg	Lys	Arg	Leu 200	Gln	Arg	Asn	Arg	Leu 205	Thr	Lys	Glu
Gln	Leu 210	Lys	Gln	Ile	Pro	Thr 215	His	Asp	Tyr	Gln	Lys 220	Gly	Asp	Gln	Tyr
Asp 225	Val	Cys	Ala	Ile	Cys 230	Leu	Asp	Glu	Tyr	Glu 235	Asp	Gly	Asp	Lys	Leu 240
Arg	Val	Leu	Pro	Cys 245	Ala	His	Ala	Tyr	His 250	Ser	Arg	Cys	Val	Asp 255	Pro
Trp	Leu	Thr	Gln 260	Thr	Arg	Lys	Thr	Cys 265	Pro	Ile	Cys	Lys	Gln 270	Pro	Val

His	Arg	Gly 275	Pro	Gly	Asp	Glu	Asp 280	Gln	Glu	Glu	Glu	Thr 285	Gln	Gly	Gln	
							68									
Glu	Glu 290	Gly	Asp	Glu	Gly	Glu 295	Pro	Arg	Asp	His	Pro 300	Ala	Ser	Glu	Arg	
Thr 305	Pro	Leu	Leu	Gly	Ser 310	Ser	Pro	Thr	Leu	Pro 315	Thr	Ser	Phe	Gly	Ser 320	
Leu	Ala	Pro	Ala	Pro 325	Leu	Val	Phe	Pro	Gly 330	Pro	Ser	Thr	Asp	Pro 335	Pro	
Leu	Ser	Pro	Pro 340	Ser	Ser	Pro	Val	Ile 345	Leu	Val						

<210> 168
 <211> 588
 <212> PRT
 <213> homo sapiens

<400> 168

Gln 1	Val	Thr	Asn	Met 5	Ser	Asp	Lys	Ser	Glu 10	Leu	Lys	Ala	Glu	Leu 15	Glu	
Arg	Lys	Lys	Gln 20	Arg	Leu	Ala	Gln	Ile 25	Arg	Glu	Glu	Lys	Lys 30	Arg	Lys	
Glu	Glu	Glu 35	Arg	Lys	Lys	Lys	Glu 40	Thr	Asp	Gln	Lys	Lys 45	Glu	Ala	Val	
Ala	Pro 50	Val	Gln	Glu	Glu	Ser 55	Asp	Leu	Glu	Lys	Lys 60	Arg	Arg	Glu	Ala	
Glu 65	Ala	Leu	Leu	Gln	Ser 70	Met	Gly	Leu	Thr	Pro 75	Glu	Ser	Pro	Ile	Val 80	
Pro	Pro	Pro	Met	Ser 85	Pro	Ser	Ser	Lys	Ser 90	Val	Ser	Thr	Pro	Ser 95	Glu	
Ala	Gly	Ser	Gln 100	Asp	Ser	Gly	Asp	Gly 105	Ala	Val	Gly	Ser	Arg 110	Arg	Gly	
Pro	Ile	Lys 115	Leu	Gly	Met	Ala	Lys 120	Ile	Thr	Gln	Val	Asp 125	Phe	Pro	Pro	
Arg	Glu 130	Ile	Val	Thr	Tyr	Thr 135	Lys	Glu	Thr	Gln	Thr 140	Pro	Val	Met	Ala	
Gln 145	Pro	Lys	Glu	Asp	Glu 150	Glu	Glu	Asp	Asp	Asp 155	Val	Val	Ala	Pro	Lys 160	

Pro	Pro	Ile	Glu	Pro 165	Glu	Glu	Glu	Lys	Thr 170	Leu	Lys	Lys	Asp	Glu 175	Glu
Asn	Asp	Ser	Lys 180	Ala	Pro	Pro	His	Glu 185	Leu	Thr	Glu	Glu	Glu 190	Lys	Gln
Gln	Ile	Leu 195	His	Ser	Glu	Glu	Phe 200	Leu	Ser	Phe	Phe	Asp 205	His	Ser	Thr
Arg	Ile 210	Val	Glu	Arg	Ala	Leu 215	Ser	Glu	Gln	Ile	Asn 220	Ile	Phe	Phe	Asp
Tyr 225	Ser	Gly	Arg	Asp	Leu 230	Glu	Asp	Lys	Glu	Gly 235	Glu	Ile	Gln	Ala	Gly 240
Ala	Lys	Leu	Ser	Leu 245	Asn	Arg	Gln	Phe	Phe 250	Asp	Glu	Arg	Trp	Ser 255	Lys
His	Arg	Val	Val 260	Ser	Cys	Leu	Asp	Trp 265	Ser	Ser	Gln	Tyr	Pro 270	Glu	Leu
Leu	Val	Ala 275	Ser	Tyr	Asn	Asn	Asn 280	Glu	Asp	Ala	Pro	His 285	Glu	Pro	Asp
Gly	Val 290	Ala	Leu	Val	Trp	Asn 295	Met	Lys	Tyr	Lys	Lys 300	Thr	Thr	Pro	Glu
Tyr 305	Val	Phe	His	Cys	Gln 310	Ser	Ala	Val	Met	Ser 315	Ala	Thr	Phe	Ala	Lys 320
Phe	His	Pro	Asn	Leu 325	Val	Val	Gly	Gly	Thr 330	Tyr	Ser	Gly	Gln	Ile 335	Val
Leu	Trp	Asp	Asn 340	Arg	Ser	Asn	Lys	Arg 345	Thr	Pro	Val	Gln	Arg 350	Thr	Pro
Leu	Ser	Ala 355	Ala	Ala	His	Thr	His 360	Pro	Val	Tyr	Cys	Val 365	Asn	Val	Val
Gly	Thr 370	Gln	Asn	Ala	His	Asn 375	Leu	Ile	Ser	Ile	Ser 380	Thr	Asp	Gly	Lys
Ile 385	Cys	Ser	Trp	Ser	Leu 390	Asp	Met	Leu	Ser	His 395	Pro	Gln	Asp	Ser	Met 400
Glu	Leu	Val	His	Lys 405	Gln	Ser	Lys	Ala	Val 410	Ala	Val	Thr	Ser	Met 415	Ser
Phe	Pro	Val	Gly	Asp	Val	Asn	Asn	Phe	Val	Val	Gly	Ser	Glu	Glu	Gly

420							70	425				430				
Ser	Val	Tyr 435	Thr	Ala	Cys	Arg	His 440	Gly	Ser	Lys	Ala	Gly 445	Ile	Ser	Glu	
Met	Phe 450	Glu	Gly	His	Gln	Gly 455	Pro	Ile	Thr	Gly	Ile 460	His	Cys	His	Ala	
Ala 465	Val	Gly	Ala	Val	Asp 470	Phe	Ser	His	Leu	Phe 475	Val	Thr	Ser	Ser	Phe 480	
Asp	Trp	Thr	Val	Lys 485	Leu	Trp	Thr	Thr	Lys 490	Asn	Asn	Lys	Pro	Leu 495	Tyr	
Ser	Phe	Glu	Asp 500	Asn	Ala	Asp	Tyr	Val 505	Tyr	Asp	Val	Met	Trp 510	Ser	Pro	
Thr	His	Pro 515	Ala	Leu	Phe	Ala	Cys 520	Val	Asp	Gly	Met	Gly 525	Arg	Leu	Asp	
Leu	Trp 530	Asn	Leu	Asn	Asn	Asp 535	Thr	Glu	Val	Pro	Thr 540	Ala	Ser	Ile	Ser	
Val 545	Glu	Gly	Asn	Pro	Ala 550	Leu	Asn	Arg	Val	Arg 555	Trp	Thr	His	Ser	Gly 560	
Arg	Gly	Gly	Gly	Cys 565	Gly	Gly	Ile	Leu	Lys 570	Asp	Lys	Phe	Cys	Tyr 575	Phe	
Ala	Met	Leu	Gly 580	Gly	Ala	Val	Cys	Trp 585	Ser	Pro	Gln					

<210> 169
 <211> 41
 <212> PRT
 <213> homo sapiens

<400> 169

Phe 1	His	Val	Glu	Gln 5	Leu	Ser	His	Ser	Phe 10	Leu	Ser	Trp	Arg	Lys 15	Asp
Thr	Ile	Gln	Arg 20	Gly	Ser	Lys	Asp	Phe 25	Val	Lys	Arg	Gly	Ile 30	His	Asn
Leu	Leu	Trp 35	Ser	Lys	Cys	Pro	His 40	Leu							

<210> 170
 <211> 55
 <212> PRT
 <213> homo sapiens

<400> 170

Cys 1	Pro	Arg	Asp	Val 5	Gly	Thr	Cys	Ser	Ile 10	Val	Asn	Tyr	Gly	Cys 15	His
Val	Leu	Gln	Asn 20	Pro	Tyr	Cys	Pro	Phe 25	Glu	Leu	Cys	Pro	Ser 30	Ser	Lys
Ile	Arg	Ser 35	Tyr	Asp	Ser	Ile	Val 40	Gln	His	Gly	Ile	Ile 45	Met	Lys	Ser
Leu	Ser 50	Ser	Ser	Ile	Phe	Pro 55									

<210> 171
 <211> 50
 <212> PRT
 <213> homo sapiens

<400> 171

Lys 1	Ala	Phe	Leu	Val 5	Leu	Ser	Phe	Pro	Lys 10	Trp	Ala	Leu	Phe	Leu 15	Val
Ile	His	Met	Thr 20	Leu	Phe	Gly	Cys	Gly 25	Cys	Leu	Leu	Asn	Phe 30	Leu	Phe
Trp	Thr	Ser 35	Phe	Ser	Lys	Pro	Lys 40	Pro	Ala	Arg	Asp	Arg 45	Lys	Gly	Asn
Gly	Asn 50														

<210> 172
 <211> 60
 <212> PRT
 <213> homo sapiens

<400> 172

Cys 1	Thr	Phe	Asn	Ile 5	Glu	Ser	Phe	Ile	Tyr 10	Leu	Ile	Val	Tyr	Arg 15	Thr
Phe	His	Asn	Tyr 20	Thr	His	Leu	Leu	His 25	Asn	Ile	Leu	Thr	Ser 30	Ile	Phe
Lys	Phe	Phe 35	Cys	Thr	Ser	Ser	Phe 40	Ser	Phe	Asn	Leu	Val 45	Lys	Pro	Val
Ile	His 50	Thr	Asn	Val	Tyr	Cys 55	Glu	Leu	Ser	Glu	Gly 60				

<210> 173
 <211> 67
 <212> PRT
 <213> homo sapiens

<400> 173

Glu	Glu	Ser	Phe	Val	Phe	Leu	Ile	His	Ser	Phe	Val	Asn	Arg	Tyr	Lys
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1				5			72		10				15			
Gly	Thr	Asn	Val 20	Leu	Thr	Tyr	Thr	Lys 25	Lys	Lys	Lys	Lys	Ile	Leu 30	Val	Tyr
Pro	Leu	Met 35	Leu	Ile	His	Arg	Val 40	Leu	Ser	Tyr	Asn	Val 45	Ile	Gln	Leu	
Gly	Ser 50	Leu	Thr	Phe	Phe	Pro 55	Lys	Asn	Ile	Phe	Ile 60	Glu	Lys	Gly	Ile	
Thr 65	Leu	Ser														

<210> 174
 <211> 56
 <212> PRT
 <213> homo sapiens

Leu 1	Tyr	His	Ile	Ile 5	Arg	Lys	His	Ser	Val 10	Asp	Gln	His	Lys	Trp 15	Val
His	Lys	Asn	Phe 20	Phe	Phe	Leu	Gly	Val 25	Cys	Lys	His	Ile	Cys 30	Ser	Phe
Ile	Ser	Val 35	Tyr	Lys	Thr	Val	Asn 40	Gln	Lys	Asp	Lys	Thr 45	Phe	Phe	Leu
Val	Phe 50	Val	Ile	Phe	Phe	Leu 55	Asn								

<210> 175
 <400> 175
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<210> 176
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<210> 177
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<210> 178
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<213> homo sapiens

<400> 181

Ser 1	Arg	Arg	Thr	Gln 5	Gly	Ala	Ala	Ser	Thr 10	Arg	Phe	Pro	Gln	Pro 15	Asp	
Thr	Ile	Gly	Gln 20	Asp	Phe	Ser	Ala	Ser 25	Ala	Gln	Arg	Gly	Gly 30	Leu	Val	
Ala	His	Ser 35	Asp	Leu	Asp	Glu	Arg 40	Ala	Ile	Glu	Ala	Leu 45	Lys	Glu	Phe	
Asn	Glu 50	Asp	Gly	Ala	Leu	Ala 55	Val	Leu	Gln	Gln	Phe 60	Lys	Asp	Ser	Asp	
Leu 65	Ser	His	Val	Gln	Asn 70	Lys	Ser	Ala	Phe	Leu 75	Cys	Gly	Val	Met	Lys 80	
Thr	Tyr	Arg	Gln	Arg 85	Glu	Lys	Gln	Gly	Thr 90	Lys	Val	Ala	Asp	Ser 95	Ser	
Lys	Gly	Pro	Asp 100	Glu	Ala	Lys	Ile	Lys 105	Ala	Leu	Leu	Glu	Arg 110	Thr	Gly	
Tyr	Thr	Leu 115	Asp	Val	Thr	Thr	Gly 120	Gln	Arg	Lys	Tyr	Gly 125	Gly	Pro	Pro	
Pro	Asp 130	Ser	Val	Tyr	Ser	Gly 135	Gln	Gln	Pro	Ser	Val 140	Gly	Thr	Glu	Ile	
Phe 145	Val	Gly	Lys	Ile	Pro 150	Arg	Asp	Leu	Phe	Glu 155	Asp	Glu	Leu	Val	Pro 160	
Leu	Phe	Glu	Lys	Ala 165	Gly	Pro	Ile	Trp	Asp 170	Leu	Arg	Leu	Met	Met 175	Asp	
Pro	Leu	Thr	Gly 180	Leu	Asn	Arg	Gly	Tyr 185	Ala	Phe	Val	Thr	Phe 190	Cys	Thr	
Lys	Glu	Ala 195	Ala	Gln	Glu	Ala	Val 200	Lys	Leu	Tyr	Asn	Asn 205	His	Glu	Ile	
Arg	Ser 210	Gly	Lys	His	Ile	Gly 215	Val	Cys	Ile	Ser	Val 220	Ala	Asn	Asn	Arg	
Leu 225	Phe	Val	Gly	Ser	Ile 230	Pro	Lys	Ser	Lys	Thr 235	Lys	Glu	Gln	Ile	Leu 240	
Glu	Glu	Phe	Ser	Lys 245	Val	Thr	Glu	Gly	Leu 250	Thr	Asp	Val	Ile	Leu 255	Tyr	

His	Gln	Pro	Asp 260	Asp	Lys	Lys	Lys	Asn 265	Arg	Gly	Phe	Cys	Phe 270	Leu	Glu
-----	-----	-----	------------	-----	-----	-----	-----	------------	-----	-----	-----	-----	------------	-----	-----

Tyr	Glu	Asp 275	His	Lys	Thr	Ala	Ala 280	Gln	Ala	Arg	Arg	Arg 285	Leu	Ile	Glu
-----	-----	------------	-----	-----	-----	-----	------------	-----	-----	-----	-----	------------	-----	-----	-----

Trp

<210> 182

<211> 39

<212> PRT

<213> homo sapiens

<400> 182

Lys 1	Leu	Cys	Thr	Glu 5	Trp	Leu	Lys	Val	Gly 10	Gly	Ile	Trp	Arg	Trp 15	Met
----------	-----	-----	-----	----------	-----	-----	-----	-----	-----------	-----	-----	-----	-----	-----------	-----

Arg	Gly	Ser	Cys 20	Leu	Gly	Arg	Leu	Cys 25	Phe	Thr	Trp	Ile	Arg 30	Val	Gly
-----	-----	-----	-----------	-----	-----	-----	-----	-----------	-----	-----	-----	-----	-----------	-----	-----

Leu	Arg	Glu 35	Glu	Ile	Gly	Val
-----	-----	-----------	-----	-----	-----	-----

<210> 183

<211> 42

<212> PRT

<213> homo sapiens

<400> 183

Glu 1	Ala	Val	Met	Thr 5	Leu	Ile	Leu	Ile	Leu 10	His	Thr	Tyr	Phe	Leu 15	Thr
----------	-----	-----	-----	----------	-----	-----	-----	-----	-----------	-----	-----	-----	-----	-----------	-----

Gln	Pro	Tyr	Ser 20	Asn	Pro	Ser	Glu	Ala 25	Lys	Pro	Ser	Gln	Thr 30	Ala	Pro
-----	-----	-----	-----------	-----	-----	-----	-----	-----------	-----	-----	-----	-----	-----------	-----	-----

Ser	His	Pro 35	Ser	Pro	Tyr	Pro	Pro 40	Asn	Leu
-----	-----	-----------	-----	-----	-----	-----	-----------	-----	-----

<210> 184

<211> 60

<212> PRT

<213> homo sapiens

<400> 184

Pro 1	Ser	Phe	Ser	Phe 5	Tyr	Thr	Pro	Ile	Ser 10	Ser	Arg	Asn	Pro	Thr 15	Leu
----------	-----	-----	-----	----------	-----	-----	-----	-----	-----------	-----	-----	-----	-----	-----------	-----

Ile	Gln	Val	Lys 20	Gln	Ser	Leu	Pro	Arg 25	Gln	Leu	Pro	Leu	Ile 30	His	Leu
-----	-----	-----	-----------	-----	-----	-----	-----	-----------	-----	-----	-----	-----	-----------	-----	-----

His	Ile	Pro 35	Pro	Thr	Phe	Asn	His 40	Ser	Val	His	Asn	Phe 45	Tyr	Ser	Leu
-----	-----	-----------	-----	-----	-----	-----	-----------	-----	-----	-----	-----	-----------	-----	-----	-----

His	Thr	Ser	Tyr	Leu	Leu	Ile	Phe	Leu	Thr	Asn	Lys
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

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<210> 186
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<210> 187
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<210> 188
 <211> 46
 <212> PRT
 <213> homo sapiens

<400> 188

Arg	Ser	Arg	Phe	His	Met	Met	Leu	Thr	Leu	Arg	Ala	Leu	Gln	Leu	Ser
1				5					10					15	
Leu	Pro	Thr	Lys	Ile	Gly	Gly	Ala	Cys	Phe	Arg	Val	Ser	Arg	Leu	Ser
			20					25					30		
Pro	Thr	Glu	Lys	Lys	Lys	Lys	Lys	Met	Ser	Leu	Glu	Glu	Ala		
		35					40					45			

<210> 189
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 <212> PRT
 <213> homo sapiens

<400> 189

Ile	Thr	Phe	Ser	His	Asp	Ala	His	Ala	Gln	Gly	Ala	Ser	Ile	Ile	Pro
1				5					10					15	
Pro	His	Lys	Asp	Arg	Trp	Arg	Val	Phe	Gln	Gly	Leu	Ser	Ser	Leu	Ser
			20					25					30		
Tyr	Arg	Lys	Glu	Lys	Glu	Lys	Asn	Val	Ile	Arg	Arg	Gly	Val	Thr	Arg
		35					40					45			
Gln	Ser	Val	Pro	Arg	Phe	Val	Phe	Pro	Gly	Val	Ala	Glu	Arg	Asp	Gln
	50					55					60				

Phe
 65

<210> 190
 <211> 66
 <212> PRT
 <213> homo sapiens

<400> 190

Glu	Cys	Arg	Glu	Ala	Gly	Pro	Leu	Phe	Leu	Gln	Ser	Arg	Leu	Glu	Leu
1				5					10					15	

Ile Ser Phe Gly His Ser Arg Lys His Lys Pro Gly Asp Gly Leu Thr
20 25 30

Cys Tyr Ala Ser Ser Asn Asp Ile Phe Phe Phe Phe Ser Val Gly
35 40 45

Glu Arg Arg Glu Thr Leu Lys His Ala Pro Pro Ile Phe Val Gly ,Arg
50 55 60

Asp Asn
65

<210> 191
<211> 48
<212> PRT
<213> homo sapiens

<400> 191

Arg Gln Thr Glu Gly Glu Thr Glu Met Leu Arg Lys Pro Ser Tyr Thr
1 5 10 15

Thr Leu Pro Arg Asn Thr Ser Leu Arg Glu Cys Lys Lys Tyr Tyr Trp
20 25 30

Arg Trp Lys Ser Arg Lys Thr Ala Met Gly Arg Arg Pro Arg Gly Asp
35 40 45

<210> 192
<211> 60
<212> PRT
<213> homo sapiens

<400> 192

Arg Ala Glu Thr Arg Ser Gln Gly Gln Leu Asn Glu Asp Lys Leu Lys
1 5 10 15

Gly Lys Leu Arg Cys Leu Glu Ser Pro Ala Ile Gln Leu Tyr Pro Glu
20 25 30

Ile Leu Pro Leu Gly Asn Val Lys Ser Thr Thr Gly Asp Gly Arg Ala
35 40 45

Glu Lys Gln Leu Trp Ala Glu Gly Gln Gly Val Ile
50 55 60

<210> 193
<211> 44
<212> PRT
<213> homo sapiens

<400> 193

Ser Cys Ile Ala Gly Leu Ser Lys His Leu Ser Phe Pro Phe Ser Leu
1 5 10 15

77

Ser	Ser	Leu	Ser 20	Cys	Pro	Trp	Leu	Arg 25	Val	Ser	Ala	Leu	Gln 30	Leu	Leu
-----	-----	-----	-----------	-----	-----	-----	-----	-----------	-----	-----	-----	-----	-----------	-----	-----

Pro	Leu	Arg 35	Ala	Phe	Pro	Pro	Ala 40	Ser	Asp	Leu	Leu
-----	-----	-----------	-----	-----	-----	-----	-----------	-----	-----	-----	-----

<210> 194
 <211> 98
 <212> PRT
 <213> homo sapiens

<400> 194

Glu 1	Ile	Met	Asn	Gly 5	Leu	Val	Leu	Asp	Asn 10	Ile	Trp	Pro	His	Lys 15	Leu
Leu	Thr	Ser	Val 20	Leu	Gly	Glu	Ser	His 25	Phe	Val	Asn	His	Thr 30	Ser	Glu
Ile	Tyr	Met 35	Met	Leu	Asn	Gly	Glu 40	Gln	Arg	Arg	Ser	Cys 45	Cys	Lys	Arg
Cys	Ile 50	Lys	Tyr	Leu	Cys	Cys 55	Phe	Cys	Met	Arg	Leu 60	Arg	Ser	Phe	Ser
His 65	Leu	Ser	Pro	Leu	Phe 70	Pro	Ile	Arg	Ile	Ser 75	Arg	Glu	Ala	Lys	Leu 80
Phe	Cys	Gly	Phe	Gly 85	Asn	Gly	His	Phe	Pro 90	Gly	Lys	Cys	Ile	Trp 95	Ile

Asp Asp

<210> 195
 <211> 115
 <212> PRT
 <213> homo sapiens

<400> 195

Ala 1	His	Ser	Ser	Thr 5	Lys	Ala	Lys	Ser	Lys 10	Ser	Glu	Phe	Leu	Pro 15	Ile
Leu	Pro	Leu	Cys 20	Asn	Thr	Leu	Arg	Ser 25	Ser	His	Asn	Cys	Pro 30	Thr	Pro
His	Leu	Pro 35	Val	Ser	Cys	Cys	Thr 40	Lys	Ser	Pro	Ser	Leu 45	Ser	Ser	Phe
Arg	Tyr 50	Ile	Val	Arg	Gln	Gly 55	Arg	Arg	Ala	Leu	Arg 60	Arg	Arg	Ala	Phe
Glu 65	Ala	Leu	Ser	Thr	Leu 70	Pro	Ala	Ser	Val	Lys 75	Met	Arg	Leu	His	Tyr 80

Ser	Pro	Glu	Lys	Arg 85	Ala	Arg	Phe	78 Ser	His 90	Arg	Ser	Arg	Cys	Ile 95	Phe
Pro	Gly	Asn	Asp 100	His	Ser	Gln	Thr	His 105	Arg	Thr	Val	Trp	Leu 110	Leu	Trp
Ile	Ser	Leu 115													

<210> 196
 <211> 128
 <212> PRT
 <213> homo sapiens
 <400> 196

Ser 1	Gly	Val	Lys	Arg 5	Ile	Ser	Cys	Val	Leu 10	Glu	Thr	Lys	Ala	Tyr 15	Cys
His	Cys	Phe	Lys 20	Lys	Ser	Leu	Cys	Glu 25	Met	Lys	Lys	Asn	Met 30	Thr	Asn
Thr	Gly	Ser 35	His	Thr	Tyr	Thr	Tyr 40	Ile	Gln	Arg	Asn	Leu 45	His	Thr	Cys
Thr	His 50	Thr	Gly	Arg	Tyr	Arg 55	His	Thr	Val	Pro	Pro 60	Lys	Arg	Ser	Pro
Asn 65	Gln	Ser	Ser	Tyr	Arg 70	Phe	Tyr	His	Ser	Val 75	Ile	Leu	Ser	Glu	Val 80
Pro	Thr	Thr	Ala	Gln 85	His	Leu	Thr	Tyr	Pro 90	Phe	Pro	Ala	Ala	Gln 95	Ser
Leu	Leu	His	Ser 100	His	Leu	Phe	Asp	Thr 105	Ser	Ser	Gly	Arg	Ala 110	Glu	Gly
His	Tyr	Ala 115	Ala	Glu	His	Ser	Arg 120	Leu	Ser	Ala	His	Cys 125	Gln	Pro	Ala

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 <210> 198
 <400> 198
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 <210> 199
 <400> 199
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 <210> 200
 <211> 72
 <212> PRT
 <213> homo sapiens

<400> 200

Arg 1	Pro	Gly	Val	Glu 5	Pro	Pro	Leu	Leu	Arg 10	Arg	Leu	Pro	Asp	Ser 15	Glu
Thr	Gln	Lys	Arg 20	Val	Gln	Gly	Trp	Gly 25	Glu	Met	Trp	Ser	Glu 30	Gly	Arg
Phe	Ala	Phe 35	Glu	Lys	Gly	Ser	Ser 40	Arg	Thr	His	Trp	Asp 45	Ile	Val	Thr
His	Leu 50	Asn	His	Leu	Leu	Ile 55	Glu	Arg	Cys	Trp	Pro 60	Pro	Asn	Asn	Gly
Arg 65	Ser	Gly	Pro	Gly	Pro 70	Arg	Ala								

<210> 201

<211> 77

<212> PRT

<213> homo sapiens

<400> 201

Gly 1	Pro	Ser	Pro	Tyr 5	Ala	Arg	Gly	Pro	Gly 10	Pro	Asp	Leu	Pro	Leu 15	Leu
Gly	Gly	Gln	His 20	Leu	Ser	Ile	Arg	Arg 25	Trp	Phe	Lys	Cys	Val 30	Thr	Met
Ser	Gln	Cys 35	Val	Leu	Glu	Leu	Pro 40	Phe	Ser	Asn	Ala	Asn 45	Leu	Pro	Ser
Leu	His 50	Ile	Ser	Pro	His	Pro 55	Trp	Thr	Arg	Phe	Cys 60	Val	Ser	Glu	Ser
Gly 65	Asn	Leu	Leu	Lys	Arg 70	Gly	Gly	Ser	Thr	Pro 75	Gly	Leu			

<210> 202

<211> 60

<212> PRT

<213> homo sapiens

<400> 202

Glu 1	Ala	Asn	Thr	Phe 5	Leu	Ser	Glu	Asp	Gly 10	Ser	Asn	Val	Leu	Gln 15	Cys
Pro	Ser	Val	Phe 20	Ser	Asn	Phe	Leu	Ser 25	Gln	Met	Gln	Thr	Phe 30	Pro	His
Ser	Thr	Ser 35	Leu	Pro	Ile	Pro	Gly 40	Pro	Val	Ser	Val	Ser 45	Leu	Ser	Gln
Ala	Thr 50	Phe	Ser	Lys	Glu	Gly 55	Val	Pro	Leu	Pro	Ala 60				

<210> 203
 <211> 84
 <212> PRT
 <213> homo sapiens

<400> 203

Pro 1	Thr	Thr	Thr	Leu 5	Val	Ile	Pro	Leu	Phe 10	Phe	Leu	Ser	Ser	Arg 15	Lys
Arg	Lys	Gln	Lys 20	Asp	Ser	Phe	Gln	Thr 25	Ala	Leu	Cys	Ser	Leu 30	His	Cys
Ser	Phe	Pro 35	Lys	Gln	Ala	Ala	Ser 40	Thr	Gly	Lys	Ala	His 45	Val	Val	Thr
Pro	Tyr 50	Phe	Ser	Glu	Val	Leu 55	Leu	Phe	His	Gly	Val 60	Thr	Leu	Leu	Ser
Glu 65	Ser	Lys	Phe	Arg	Lys 70	Gln	Val	Leu	Pro	Leu 75	Ala	Asp	Lys	Asn	His 80
Thr	Ser	Phe	Leu												

<210> 204
 <211> 128
 <212> PRT
 <213> homo sapiens

<400> 204

Cys 1	Asp	Arg	Val	Pro 5	Leu	Phe	Leu	Ser	Tyr 10	Trp	Cys	Ala	Val	Ala 15	Asp
Ser	Trp	Leu	Thr 20	Ala	Ser	Ser	Val	Ser 25	His	Val	Lys	Gly	Ile 30	Leu	Ser
Pro	Gln	Pro 35	Thr	Glu	Cys	Ala	Pro 40	Pro	Gly	Pro	Ala	Asn 45	Cys	Phe	Phe
Asn	Phe 50	Phe	Phe	Phe	Phe	Phe 55	Phe	Leu	Val	Glu	Thr 60	Gly	Ser	Pro	Ser
Val 65	Ala	Gln	Asp	Gly	Leu 70	Glu	Leu	Leu	Gly	Ser 75	Ser	Asn	Pro	Pro	Thr 80
Leu	Ala	Ser	Gln	Ser 85	Ala	Glu	Ile	Thr	Gly 90	Met	Ser	His	Tyr	Ala 95	Gln
Pro	Glu	Gln	Asp 100	Asp	Leu	Asn	Leu	Ile 105	Asn	Ser	Thr	Pro	Lys 110	Gln	Gln
Leu	Ser	Leu 115	Ser	Gln	Gly	Cys	Gln 120	Gly	Gly	Leu	Cys	Glu 125	Gly	Lys	Asp

<210> 205
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 <212> PRT
 <213> homo sapiens

<400> 205

Trp	Val	Ala	Gly	Arg	Arg	His	Leu	Leu	Ser	Val	Gln	Thr	Lys	Ser	Leu
1				5					10					15	
Gln	Val	Leu	Gly	Leu	Asp	Leu	Cys	Val	Thr	Pro	Glu	Ser	Gln	Cys	Ile
			20					25					30		
Arg	Tyr	Leu	Tyr	Lys	Lys	Leu	Val	Trp	Phe	Leu	Ser	Ala	Lys	Gly	Lys
		35					40					45			
Thr	Cys	Phe	Leu	Asn	Leu	Leu	Ser	Asp	Asn	Lys	Val	Thr	Pro	Trp	Lys
	50					55					60				
Arg	Arg	Thr	Ser	Glu	Lys	Tyr	Gly	Val	Thr	Thr	Trp	Ala	Phe	Pro	Val
65					70					75					80
Leu	Ala	Ala	Cys	Phe	Gly	Lys	Leu	Gln	Cys	Arg	Leu	Gln	Arg	Ala	Val
				85					90					95	

<210> 206
 <211> 49
 <212> PRT
 <213> homo sapiens

<400> 206

Pro	Asp	Phe	Arg	Gly	Phe	Ala	Gly	Pro	Ala	Met	Phe	Ser	Arg	Gly	Phe
1				5					10					15	
Gln	Val	Gly	Arg	Gly	Glu	Arg	Gln	Gly	Glu	Asn	Ala	Pro	Cys	Arg	Gly
			20					25					30		
Val	Gln	Arg	Ser	Pro	Ala	Ser	Cys	Pro	Ala	Val	Gly	Trp	Thr	Ser	Asp
		35					40					45			

Leu

<210> 207
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 <212> PRT
 <213> homo sapiens

<400> 207

Gln	Ile	Ser	Gly	Val	Leu	Arg	Ala	Pro	Arg	Cys	Phe	Pro	Glu	Val	Phe
1				5					10					15	
Lys	Trp	Glu	Glu	Glu	Ser	Asp	Lys	Val	Lys	Met	Pro	Arg	Ala	Gly	Ala
			20					25					30		

Ser Ser Gly Val Leu Pro Ala Val Arg Arg Trp Gly Gly Arg Leu Ile
35 40 45

Tyr Glu Gly Ala His Pro Pro Ile
50 55

<210> 208

<211> 68

<212> PRT

<213> homo sapiens

<400> 208

Cys Cys Ser Cys Gln Ser Ser Gln Val Arg Tyr Ser Asp Arg Trp Met
1 5 10 15

Gly Thr Phe Ile Asn Gln Thr Ser Thr Pro Pro Pro Asp Ser Trp Gln
20 25 30

Asp Ser Ala Gly Arg Pro Gly Thr Gly His Phe His Leu Val Ala Leu
35 40 45

Leu Phe Pro Leu Glu Asn Leu Trp Lys Thr Ser Arg Gly Pro Gln Asn
50 55 60

Pro Gly Asn Leu
65

<210> 209

<211> 164

<212> PRT

<213> homo sapiens

<400> 209

Trp Gly Gly Arg Thr Leu Ala Ser Ala Val Ser Ile Pro Leu Arg Lys
1 5 10 15

Cys His Ser His Arg Pro Thr Val Leu Ala Arg Lys Gln Pro Gln Ser
20 25 30

Gly Val Pro Pro Pro Tyr Thr Ala Ile Ala Ser Pro Asp Ala Ser Gly
35 40 45

Ile Pro Val Ile Asn Cys Arg Val Cys Gln Ser Leu Ile Asn Leu Asp
50 55 60

Gly Lys Leu His Gln His Val Val Lys Cys Thr Val Cys Asn Glu Ala
65 70 75 80

Thr Pro Ile Lys Asn Pro Pro Thr Gly Lys Lys Tyr Val Arg Cys Pro
85 90 95

Cys Asn Cys Leu Leu Ile Cys Lys Asp Thr Ser Arg Arg Ile Gly Cys
100 105 110

Pro	Arg	Pro 115	Asn	Cys	Arg	Arg	Ile 120	Ile	Asn	Leu	Gly	Pro 125	Val	Met	Leu
Ile	Ser 130	Glu	Gly	Thr	Thr	Ser 135	Ser	Ala	Cys	Ile	Ala 140	Gln	Ser	Gln	Pro
Glu 145	Gly	Tyr	Lys	Gly	Arg 150	Val	Leu	Gly	His	Gly 155	Trp	Gly	Thr	His	Ser 160

Leu Trp Asp Gly

<210> 210

<211> 218

<212> PRT

<213> homo sapiens

<400> 210

Ser 1	Ser	Ala	Val	Pro 5	Asp	Gly	Ala	Val	Gly 10	Arg	Pro	Val	Ala	Val 15	Ala
Val	Gly	Gly	Pro 20	Pro	His	Ser	Cys	Arg 25	Cys	Arg	Pro	Cys	Cys 30	Leu	Met
Ala	Ala	Ile 35	Gly	Val	His	Leu	Gly 40	Cys	Thr	Ser	Ala	Cys 45	Val	Ala	Val
Tyr	Lys 50	Asp	Gly	Arg	Ala	Gly 55	Val	Val	Ala	Asn	Asp 60	Ala	Gly	Asp	Arg
Val 65	Thr	Pro	Ala	Val	Val 70	Ala	Tyr	Ser	Glu	Asn 75	Glu	Glu	Ile	Val	Gly 80
Leu	Ala	Ala	Lys	Gln 85	Ser	Arg	Ile	Arg	Asn 90	Ile	Ser	Asn	Thr	Val 95	Met
Lys	Val	Lys	Gln 100	Ile	Leu	Gly	Arg	Ser 105	Ser	Ser	Asp	Pro	Gln 110	Ala	Gln
Lys	Tyr	Ile 115	Ala	Glu	Ser	Lys	Cys 120	Leu	Val	Ile	Glu	Lys 125	Asn	Gly	Lys
Leu	Arg 130	Tyr	Glu	Ile	Asp	Thr 135	Gly	Glu	Glu	Thr	Lys 140	Phe	Val	Asn	Pro
Glu 145	Asp	Val	Ala	Arg	Leu 150	Ile	Phe	Ser	Lys	Met 155	Lys	Glu	Thr	Ala	His 160
Ser	Val	Leu	Gly	Ser 165	Asp	Ala	Asn	Asp	Val 170	Val	Ile	Thr	Val	Pro 175	Phe

Asp	Phe	Gly	Glu 180	Lys	Gln	Lys	Asn	Ala 185	Leu	Gly	Glu	Ala	Ala 190	Arg	Ala
Ala	Gly	Phe 195	Asn	Val	Leu	Arg	Leu 200	Ile	His	Glu	Pro	Ser 205	Ala	Ala	Leu
Leu	Ala 210	Tyr	Gly	Val	Gly	Gln 215	Asp	Ser	Pro						

<210> 211
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 <212> PRT
 <213> homo sapiens
 <400> 211

Arg 1	Lys	Trp	Thr	Leu 5	Thr	Ser	Met	Ser	Gln 10	Lys	Arg	Met	Leu	Lys 15	Arg
Pro	Asp	Asn	Lys 20	Leu	Lys	Tyr	Val	Thr 25	Lys	Trp	Gln	Arg	Thr 30	Ala	Lys
Gln	Ile	Thr 35	His	Pro	Phe	Ser	Arg 40	Asn	Ser	Thr	Met	Ser 45	Ser	Met	Asn
Ile	Thr 50	Ile	Leu	Thr	Ser	Pro 55	Thr	Ser	Ser	Arg	Lys 60	Tyr	Lys	Arg	Ala
Glu 65	Glu	Arg	Arg	Ile	Val 70	Arg	Met	Gly	Glu	Ser 75	Met	Lys	Thr	Tyr	Ala 80
Glu	Val	Asp	Arg	Gln 85	Val	Ile	Pro	Ile	Ile 90	Gly	Lys	Cys	Leu	Asp 95	Gly
Ile	Val	Lys	Ala 100	Ala	Glu	Ser	Ile	Asp 105	Gln	Lys	Asn	Asp	Ser 110	Gln	Leu
Val	Ile	Glu 115	Ala	Tyr	Lys	Ser	Gly 120	Phe	Glu	Pro	Pro	Gly 125	Asp	Ile	Glu
Phe	Glu 130	Asp	Tyr	Thr	Gln	Pro 135	Met	Lys	Arg	Thr	Val 140	Ser	Asp	Asn	Ser
Leu 145	Ser	Asn	Ser	Arg	Gly 150	Glu	Gly	Lys	Pro	Asp 155	Leu	Lys	Phe	Gly	Gly 160
Lys	Ser	Lys	Gly	Lys 165	Leu	Trp	Pro	Phe	Ile 170	Lys	Lys	Asn	Lys	Leu 175	Met
Ser	Leu	Leu	Thr 180	Gly	Gly	Pro	Phe	Ser 185	Phe						


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<210> 212
<211> 60
<212> PRT
<213> homo sapiens
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<400> 212

Ile 1	Ser	Gly	Arg	Arg 5	Val	Ser	Leu	Asn	Phe 10	Val	Ser	Glu	Phe	Ser 15	Ile
Thr	Glu	Phe	Cys 20	Pro	Cys	Trp	Cys	Leu 25	Gly	Tyr	Arg	Pro	Asp 30	Gly	Pro
Gly	Ser	Phe 35	Pro	Ser	Cys	Ser	Gly 40	Leu	Glu	Val	Ser	Pro 45	Leu	His	Phe
Leu	Lys 50	Ala	Cys	Val	Gln	Cys 55	Ser	Pro	Lys	Ser	Ile 60				

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<210> 213
<211> 68
<212> PRT
<213> homo sapiens
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<400> 213

[illegible]

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<210> 214
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<212> PRT
<213> homo sapiens
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<400> 214

[illegible]

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<210> 215
 <211> 276
 <212> PRT
 <213> homo sapiens

<400> 215

Leu 1	Pro	Thr	Ala	Phe 5	Leu	Leu	Ser	Ser	Val 10	Phe	Trp	Ile	Phe	Met 15	Thr
Trp	Phe	Ile	Leu 20	Phe	Phe	Pro	Asp	Leu 25	Ala	Gly	Ala	Pro	Phe 30	Tyr	Phe
Ser	Phe	Ile 35	Phe	Ser	Ile	Val	Ala 40	Phe	Leu	Tyr	Phe	Phe 45	Tyr	Lys	Thr
Trp	Ala 50	Thr	Asp	Pro	Gly	Phe 55	Thr	Lys	Ala	Ser	Glu 60	Glu	Glu	Lys	Lys
Val 65	Asn	Ile	Ile	Thr	Leu 70	Ala	Glu	Thr	Gly	Ser 75	Leu	Asp	Phe	Arg	Thr 80
Phe	Cys	Thr	Ser	Cys 85	Leu	Ile	Arg	Lys	Pro 90	Leu	Arg	Ser	Leu	His 95	Cys
His	Val	Cys	Asn 100	Cys	Cys	Val	Ala	Arg 105	Tyr	Asp	Gln	His	Cys 110	Leu	Trp
Thr	Gly	Arg 115	Cys	Ile	Gly	Phe	Gly 120	Asn	His	His	Tyr	Tyr 125	Ile	Phe	Phe
Leu	Phe 130	Phe	Leu	Ser	Met	Val 135	Cys	Gly	Trp	Ile	Ile 140	Tyr	Gly	Ser	Phe
Ile 145	Tyr	Leu	Ser	Ser	His 150	Cys	Ala	Thr	Thr	Phe 155	Lys	Glu	Asp	Gly	Leu 160
Trp	Thr	Tyr	Leu	Asn 165	Gln	Ile	Val	Ala	Cys 170	Ser	Pro	Trp	Val	Leu 175	Tyr
Ile	Leu	Met	Leu 180	Ala	Thr	Phe	His	Phe 185	Ser	Trp	Ser	Thr	Phe 190	Leu	Leu
Leu	Asn	Gln 195	Leu	Phe	Gln	Ile	Ala 200	Phe	Leu	Gly	Leu	Thr 205	Ser	His	Glu
Arg	Ile 210	Ser	Leu	Gln	Lys	Gln 215	Ser	Lys	His	Met	Lys 220	Gln	Thr	Leu	Ser
Leu	Arg	Lys	Thr	Pro	Tyr	Asn	Leu	Gly	Phe	Met	Gln	Asn	Leu	Ala	Asp

225 230 235 240

Trp Thr Ser Gln Tyr Thr Met Val Phe His Pro Ala Arg Glu Lys Val
260 265 270

Leu Arg Ser Val
275

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<210> 216
<211> 49
<212> PRT
<213> homo sapiens .
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<400> 216

Ser₁ Pro Ser Arg Ser₅ Pro Val Val Phe Ala₁₀ Gly Glu Phe Leu Phe₁₅ Lys

His Pro Phe Val Glu Glu Ser Leu Met Ser Phe Phe His Pro Asp Leu
 20 25 30

[illegible]

Phe

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<210> 217
<211> 37
<212> PRT
<213> homo sapiens
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<400> 217

Lys Glu Ile Asn Asn Tyr Ile Arg Lys Glu Lys Asn Phe Lys Tyr Leu
1 5 10 15

Gln Pro Ser Thr
 20

Pro Asn His Pro Gln Asp Arg Trp Val Gln Lys Asn
 25 30

Ala Pro Trp Phe Tyr
 35

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<210> 218
<211> 52
<212> PRT
<213> homo sapiens
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<400> 218

Lys Phe Ser Ser Lys Asp Asp Arg Thr Ser Arg Arg Arg Ser Ile Ile
1 5 10 15

Ile Ser Glu Arg Lys Lys Ile Leu Ser Ile Tyr Asn Pro Leu Leu Leu
20 25 30

Ile	Thr	Pro	Lys	Ile	Gly	Gly	Ser	Arg	Lys	Met	His	Leu	Gly	Phe	Thr
		35					40					45			

Glu	Glu	Arg	Ser
	50		

<210> 219
 <211> 150
 <212> PRT
 <213> homo sapiens

<400> 219

Asp	Lys	Arg	Asn	Gly	Ile	Ile	Ser	Lys	Lys	Leu	Ser	Pro	Glu	Lys	Thr
1				5					10					15	
Thr	Leu	Lys	Ser	Ile	Leu	Lys	Arg	Lys	Gly	Thr	Ser	Asp	Ile	Ser	Asp
			20					25					30		
Glu	Ser	Asp	Asp	Ile	Glu	Ile	Ser	Ser	Lys	Ser	Arg	Val	Arg	Lys	Arg
		35					40					45			
Ala	Ser	Ser	Leu	Arg	Phe	Lys	Arg	Ile	Lys	Glu	Thr	Lys	Lys	Glu	Leu
	50					55					60				
His	Asn	Ser	Pro	Lys	Thr	Met	Asn	Lys	Thr	Asn	Gln	Val	Tyr	Ala	Ala
65					70					75					80
Asn	Glu	Asp	His	Asn	Ser	Gln	Phe	Ile	Asp	Asp	Tyr	Ser	Ser	Ser	Asp
				85					90					95	
Glu	Ser	Leu	Ser	Val	Ser	His	Phe	Ser	Phe	Ser	Lys	Gln	Ser	His	Arg
			100					105					110		
Pro	Arg	Thr	Ile	Arg	Asp	Arg	Thr	Ser	Phe	Ser	Ser	Lys	Leu	Pro	Ser
		115					120					125			
His	Asn	Lys	Lys	Asn	Ser	Thr	Phe	Ile	Pro	Arg	Lys	Pro	Met	Lys	Cys
	130					135					140				
Ser	Asn	Glu	Glu	Ser	Cys										
145					150										

<210> 220
 <211> 83
 <212> PRT
 <213> homo sapiens

<400> 220

Asn	Lys	Trp	Asn	Lys	Ser	Lys	Leu	Gly	Lys	Glu	Ile	Ser	Lys	Ala	Thr
1				5					10					15	
Gln	Ser	Leu	Asp	Pro	Ala	Gln	Leu	Ala	Asp	Pro	Cys	His	Ser	Leu	Ala
			20					25					30		

Val	Ala	Ala	Ser	Leu	Cys	Ser	Leu	Lys	Gly	Glu	Pro	Gly	Gln	Cys	Phe
		35					40					45			
Pro	Ser	Pro	Trp	Ala	Trp	Ser	Leu	His	Ser	Gly	Lys	Gln	Thr	Ser	Gly
	50					55					60				
Pro	Phe	Pro	Lys	Ser	Gln	Glu	Cys	Leu	Ala	Ala	Trp	Trp	Val	Leu	Ile
65					70					75					80

Ala Met Phe

<210> 221
 <211> 83
 <212> PRT
 <213> homo sapiens

<400> 221

Asn	Ser	Lys	Leu	Val	Asp	Cys	Arg	Met	Glu	Thr	Trp	Leu	Leu	Arg	His
1				5					10					15	
Trp	Val	Ser	Phe	Ser	Leu	Cys	Val	Ser	Cys	Trp	Gly	Val	Val	Met	Ile
			20					25					30		
Val	Ser	Ala	Leu	Thr	His	Cys	Thr	Arg	Trp	Gln	Gln	Asp	Thr	Ala	Leu
		35					40					45			
His	Lys	Met	Ala	Ala	Pro	Leu	Gln	Leu	Pro	Pro	Gln	Pro	Pro	Ser	Leu
	50					55					60				
His	Pro	His	Arg	Phe	Gly	Leu	Trp	Phe	Leu	Ser	Ser	Val	Thr	Tyr	Cys
65					70					75					80

Leu Arg Ser

<210> 222
 <211> 90
 <212> PRT
 <213> homo sapiens

<400> 222

Cys	Leu	His	Asn	Arg	Glu	Pro	Asp	Ile	Phe	Arg	Ile	Leu	Ser	Ser	Ser
1				5					10					15	
Tyr	Tyr	Gly	Ile	Leu	Arg	Pro	Arg	Ser	Tyr	Leu	Gln	Thr	Lys	Trp	Pro
			20					25					30		
Trp	Ser	Leu	Gln	Asn	Ile	Ala	Met	Ser	Thr	His	Gln	Ala	Ala	Arg	His
		35					40					45			
Ser	Trp	Asp	Leu	Gly	Lys	Gly	Pro	Leu	Val	Cys	Phe	Pro	Leu	Cys	Ser
	50					55					60				

Asp	Gln	Ala	Gln	Gly	Leu	Gly	Lys	His	Trp	Pro	Gly	Ser	Pro	Phe	Ser
65					70		90			75					80

Glu	His	Arg	Glu	Ala	Ala	Thr	Ala	Arg	Glu
				85					90

<210> 223
 <211> 114
 <212> PRT
 <213> homo sapiens

<400> 223

Gln	Ser	Leu	Arg	His	Cys	Trp	Leu	Asn	Ile	Ser	Leu	Gln	Arg	Asp	Gly
1				5					10					15	

Ala	Phe	Lys	Glu	Pro	Gly	Ala	Gly	Pro	Val	Ser	Ser	Lys	Ala	Leu	Asp
			20					25					30		

Val	Phe	Leu	Val	Arg	Thr	Arg	Arg	Gly	Cys	Gln	Met	Pro	Leu	Lys	Pro
		25					40					45			

Ser	Gly	Leu	Val	Trp	Pro	Arg	Ala	Ala	Gly	Gln	Gly	Arg	Ala	Glu	Lys
	50					55					60				

Trp	Ser	Ser	Ser	Gln	Leu	Ala	Leu	Pro	Ser	Pro	Thr	Gln	Pro	Arg	Pro
65					70					75					80

Arg	Trp	Ser	Leu	Asp	Ser	Ile	Leu	Thr	Ser	Ala	Ser	Pro	Lys	Val	Gln
				85					90					95	

Met	Ser	Lys	Cys	Leu	Val	Val	Gln	Ser	Gln	Glu	Met	Gly	Ser	Tyr	Leu
			100					105					110		

Lys Ser

<210> 224
 <211> 145
 <212> PRT
 <213> homo sapiens

<400> 224

Gly	Cys	Val	Gly	Gly	Gly	Arg	Ala	Glu	Ala	Met	Ala	Glu	Lys	Phe	Asp
1				5					10					15	

His	Leu	Glu	Glu	His	Leu	Glu	Lys	Phe	Val	Glu	Asn	Ile	Arg	Gln	Leu
			20					25					30		

Gly	Ile	Ile	Val	Ser	Asp	Phe	Gln	Pro	Ser	Ser	Gln	Ala	Gly	Leu	Asn
		35					40					45			

Gln	Lys	Leu	Asn	Phe	Ile	Val	Thr	Gly	Leu	Gln	Asp	Ile	Asp	Lys	Cys
	50					55					60				

Arg	Gln	Gln	Leu	His	Asp	Ile	Thr ⁹¹	Val	Pro	Leu	Glu	Val	Phe	Glu	Tyr
65					70					75					80
Ile	Asp	Gln	Gly	Arg	Asn	Pro	Gln	Leu	Tyr	Thr	Lys	Glu	Cys	Leu	Glu
				85					90					95	
Arg	Ala	Leu	Ala	Lys	Asn	Glu	Gln	Val	Lys	Gly	Lys	Ile	Asp	Thr	Met
			100					105					110		
Lys	Lys	Phe	Lys	Ser	Leu	Leu	Ile	Gln	Glu	Leu	Ser	Lys	Val	Phe	Pro
		115					120					125			
Glu	Asp	Met	Ala	Lys	Tyr	Arg	Ser	Ile	Arg	Gly	Glu	Asp	His	Pro	Pro
	130					135					140				
Ser															
145															

<210> 225
 <211> 95
 <212> PRT
 <213> homo sapiens

<400> 225

Gly	Gln	Thr	Met	Arg	Thr	Glu	Gly	Leu	Arg	Gly	Val	Ser	Arg	Ala	Gln
1				5					10					15	
Ser	His	Leu	Ser	Arg	Lys	Val	Ala	Ser	Ala	Leu	Ala	Val	Pro	Ala	Ser
			20					25					30		
Arg	Arg	Ile	Ala	Val	Pro	Gly	Asp	Leu	His	Thr	Gly	Arg	Val	Ser	Trp
		35					40					45			
Leu	Arg	Arg	Arg	Val	Ile	Leu	Pro	Pro	Asp	Ala	Ser	Ile	Leu	Ser	His
	50					55					60				
Val	Phe	Arg	Lys	Tyr	Phe	Arg	Lys	Phe	Leu	Asn	Gln	Gln	Ala	Phe	Lys
65					70					75					80
Phe	Leu	His	Gly	Val	Asp	Leu	Ala	Phe	Asn	Leu	Leu	Ile	Phe	Ser	
				85					90					95	

<210> 226
 <211> 87
 <212> PRT
 <213> homo sapiens

<400> 226

Ala	Leu	Arg	Pro	Pro	Leu	Tyr	Ala	Leu	Gly	Gln	Gln	Val	Gly	Ala	Val
1				5					10					15	
Thr	Gly	Pro	Ala	Asp	Cys	Ser	Ala	Thr	Ala	Pro	Leu	Asp	Phe	Trp	Ile
			20					25					30		

Phe	Trp	Lys 35	Gln	Ser	Gln	Asn	Ser 40	Gly	Leu	Leu	Gly	Gly 45	Trp	Gln	Arg
Gly	Met 50	Val	Arg	Gly	Pro	Pro 55	Phe	Ile	Ser	Leu	Phe 60	Ser	Ile	Arg	Trp
Gln 65	Ser	Thr	Gly	His	Pro 70	Trp	Trp	Val	Ser	Gly 75	Pro	Arg	Pro	Met	Pro 80
Thr	Leu	Pro	Phe	Glu 85	Ser	Arg									

<210> 227
 <211> 79
 <212> PRT
 <213> homo sapiens

<400> 227

Ala 1	Pro	Ala	Leu	Ala 5	Thr	Gln	Pro	Pro	Leu 10	Ser	Leu	Pro	Arg	Gly 15	Thr
Gly	Pro	Ala	Tyr 20	Leu	Asn	Ser	Leu	Thr 25	Leu	Met	Leu	Gln	Thr 30	Trp	Leu
Leu	Asp	Ser 35	Lys	Leu	Leu	Ser	Ser 40	Asn	Val	Leu	Leu	Pro 45	His	Phe	His
Phe	Leu 50	His	Ile	Cys	Leu	Leu 55	Leu	Tyr	Trp	Phe	Leu 60	Leu	Leu	Asn	Leu
Tyr 65	Phe	His	Ser	Trp	Val 70	Leu	Cys	Leu	Pro	Pro 75	Phe	Phe	Ser	Ala	

<210> 228
 <211> 87
 <212> PRT
 <213> homo sapiens

<400> 228

Arg 1	Ser	Met	Ser	Val 5	Glu	Ala	Ser	Phe	Val 10	Cys	Leu	Gly	Thr	Thr 15	Gly
Arg	Cys	Cys	His 20	Trp	Ser	Cys	Arg	Leu 25	Phe	Ser	Asn	Ser	Pro 30	Phe	Gly
Phe	Leu	Asp 35	Ile	Leu	Glu	Thr	Lys 40	Ser	Glu	Gln	Trp	Pro 45	Thr	Gly	Gly
Leu	Ala 50	Glu	Gly	Tyr	Gly	Lys 55	Arg	Thr	Ser	Phe	His 60	Leu	Pro	Val	Gln
His 65	Pro	Met	Ala	Val	His 70	Arg	Ser	Ser	Leu	Val 75	Gly	Val	Arg	Pro	Lys 80

Thr His Ala His Leu Thr Leu
85

<210> 229
<211> 150
<212> PRT
<213> homo sapiens

<400> 229

Ala	Thr	Leu	Ser	Arg	Phe	Phe	Gly	Arg	Ile	Phe	Asn	Leu	Arg	Leu	Thr
1				5					10					15	
Gln	Val	Phe	Pro	Phe	Leu	Phe	Ser	Ser	Pro	Asn	Asp	Lys	Lys	Ser	Phe
			20					25					30		
Cys	Ser	Ile	Glu	Gly	Glu	Trp	Asn	Gly	Val	Met	Tyr	Ala	Lys	Tyr	Ala
		35					40					45			
Thr	Gly	Glu	Asn	Thr	Val	Phe	Val	Asp	Thr	Lys	Lys	Leu	Pro	Ile	Ile
	50					55					60				
Lys	Lys	Lys	Val	Arg	Lys	Leu	Glu	Asp	Gln	Asn	Glu	Tyr	Glu	Ser	Arg
65					70					75					80
Ser	Leu	Trp	Lys	Asp	Val	Thr	Phe	Asn	Leu	Lys	Ile	Arg	Asp	Ile	Asp
				85					90					95	
Ala	Ala	Thr	Glu	Ala	Lys	His	Arg	Leu	Glu	Glu	Arg	Gln	Arg	Ala	Glu
			100					105					110		
Ala	Arg	Glu	Arg	Lys	Glu	Lys	Glu	Ile	Gln	Trp	Glu	Thr	Arg	Leu	Phe
		115					120					125			
His	Glu	Asp	Gly	Glu	Cys	Trp	Val	Tyr	Asp	Glu	Pro	Leu	Leu	Lys	Arg
	130					135					140				
Leu	Gly	Ala	Ala	Lys	His										
145					150										

<210> 230
<400> 230
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<210> 231
<400> 231
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<210> 232
<400> 232
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<210> 233
<211> 206
<212> PRT

<213> homo sapiens

<400> 233

Asp 1	Ser	Leu	Arg	Arg 5	Gly	Leu	Gly	Ile	Cys 10	Leu	Trp	Glu	Phe	Ile 15	His
Leu	Ser	Leu	Leu 20	Phe	Thr	Ser	Pro	Lys 25	Pro	Gly	Phe	Pro	Leu 30	Leu	Lys
Pro	Ala	Val 35	Ile	Ser	Gln	Leu	Glu 40	Gly	Gly	Ser	Glu	Leu 45	Gly	Gly	Ser
Ser	Pro 50	Leu	Ala	Ala	Gly	Thr 55	Gly	Leu	Gln	Gly	Ser 60	Gln	Thr	Asp	Ile
Gln 65	Thr	Asp	Asn	Asp	Leu 70	Thr	Lys	Glu	Met	Tyr 75	Glu	Gly	Lys	Glu	Asn 80
Val	Ser	Phe	Glu	Leu 85	Gln	Arg	Asp	Phe	Ser 90	Gln	Glu	Thr	Asp	Phe 95	Ser
Glu	Ala	Ser	Leu 100	Leu	Glu	Lys	Gln	Gln 105	Glu	Val	His	Ser	Ala 110	Gly	Asn
Ile	Lys	Lys 115	Glu	Lys	Ser	Asn	Thr 120	Ile	Asp	Gly	Thr	Val 125	Lys	Asp	Glu
Thr	Ser 130	Pro	Val	Glu	Glu	Cys 135	Phe	Phe	Ser	Gln	Ser 140	Ser	Asn	Ser	Tyr
Gln 145	Cys	His	Thr	Ile	Thr 150	Gly	Glu	Gln	Pro	Ser 155	Gly	Cys	Thr	Gly	Leu 160
Gly	Lys	Ser	Ile	Ser 165	Phe	Asp	Thr	Lys	Leu 170	Val	Lys	His	Glu	Ile 175	Ile
Asn	Ser	Glu	Glu 180	Arg	Pro	Phe	Lys	Cys 185	Glu	Glu	Leu	Val	Glu 190	Pro	Phe
Arg	Cys	Asp 195	Ser	Gln	Leu	Ile	Gln 200	Pro	Ser	Arg	Glu	Gln 205	His		

<210> 234

<400> 234

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<210> 235

<400> 235

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<210> 236

<400> 236

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<210> 237
 <211> 57
 <212> PRT
 <213> homo sapiens

<400> 237

Arg	Ile	Arg	Arg	Ser	Ala	Leu	Ile	Phe	Ser	Lys	Gly	Val	Gln	Arg	Trp
1				5					10					15	
Arg	Arg	Val	Phe	Gly	Arg	Arg	Val	Ser	Pro	Gly	Ser	Gly	Asn	Thr	Glu
			20					25					30		
Ser	Glu	Ala	Ser	Asp	Tyr	Arg	Lys	Lys	Gln	Gly	Thr	Ser	Lys	Val	Phe
		35					40					45			
Gly	Arg	Arg	Val	Leu	Lys	Lys	Ile	Gln							
	50					55									

<210> 238
 <211> 44
 <212> PRT
 <213> homo sapiens

<400> 238

Gly	Thr	Leu	Phe	Phe	Thr	Val	Val	Thr	Gly	Phe	Ala	Leu	Cys	Val	Pro
1				5					10					15	
Ala	Ala	Gly	Thr	Tyr	Pro	Pro	Ser	Glu	Asn	Pro	Pro	Pro	Ser	Leu	Tyr
			20					25					30		
Thr	Leu	Gly	Lys	Asp	Gln	Cys	Arg	Thr	Pro	Asp	Pro				
		35					40								

<210> 239
 <211> 74
 <212> PRT
 <213> homo sapiens

<400> 239

Asn	Leu	Tyr	Pro	Thr	Leu	Glu	Phe	Asn	Pro	Ser	His	Phe	Val	Val	Glu
1				5					10					15	
Leu	Thr	Gly	Phe	Phe	Ser	Thr	Pro	Phe	Phe	Arg	Thr	Pro	Leu	Arg	Tyr
			20					25					30		
Leu	Val	Phe	Tyr	Gly	Ser	His	Trp	Leu	Arg	Ser	Leu	Cys	Ser	Arg	Cys
		35					40					45			
Arg	Asp	Leu	Pro	Ala	Phe	Arg	Lys	Pro	Ala	Ala	Ile	Ser	Val	His	Pro
	50					55					60				
Trp	Lys	Arg	Ser	Val	Gln	Asn	Ala	Gly	Ser						
65					70										

<210> 240

<400> 240
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<210> 241
<400> 241
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<210> 242
<400> 242
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<210> 243
<211> 183
<212> PRT
<213> homo sapiens

<400> 243

Ala 1	Ala	Val	Ala	Phe 5	Gly	Ala	Lys	Gly	Thr 10	Ser	Pro	Ala	Glu	Ala 15	Arg
Ser	Ser	Arg	Gly 20	Ile	Glu	Glu	Ala	Gly 25	Pro	Arg	Ala	His	Gly 30	Arg	Ala
Gly	Arg	Glu 35	Pro	Glu	Arg	Arg	Arg 40	Ser	Arg	Gln	Gln	Arg 45	Arg	Gly	Gly
Leu	Gln 50	Ala	Arg	Arg	Ser	Thr 55	Leu	Leu	Lys	Thr	Cys 60	Ala	Arg	Ala	Arg
Ala 65	Thr	Ala	Pro	Gly	Ala 70	Met	Lys	Met	Val	Ala 75	Pro	Trp	Thr	Arg	Phe 80
Tyr	Ser	Asn	Ser	Cys 85	Cys	Leu	Cys	Cys	His 90	Val	Arg	Thr	Gly	Thr 95	Ile
Leu	Leu	Gly	Val 100	Trp	Tyr	Leu	Ile	Ile 105	Asn	Ala	Val	Val	Leu 110	Leu	Ile
Leu	Leu	Ser 115	Ala	Leu	Ala	Asp	Pro 120	Asp	Gln	Tyr	Asn	Phe 125	Ser	Ser	Ser
Glu	Leu 130	Gly	Gly	Asp	Phe	Glu 135	Phe	Met	Asp	Asp	Ala 140	Asn	Met	Cys	Ile
Ala 145	Ile	Ala	Ile	Ser	Leu 150	Leu	Met	Ile	Leu	Ile 155	Cys	Ala	Met	Ala	Thr 160
Tyr	Gly	Ala	Tyr	Lys 165	Gln	Arg	Ala	Ala	Gly 170	Ser	Ser	His	Ser	Ser 175	Val

Thr Arg Ser Leu Thr Leu Pro
180

<210> 244

<211> 157
 <212> PRT
 <213> homo sapiens

<400> 244

Cys 1	Gln	His	Val	His 5	Cys	His	Cys	Asp	Phe 10	Ser	Ser	His	Asp	Pro 15	Asp
Met	Cys	Tyr	Gly 20	Tyr	Leu	Arg	Ser	Val 25	Gln	Ala	Thr	Arg	Ser 30	Trp	Ile
Ile	Pro	Phe 35	Phe	Cys	Tyr	Gln	Ile 40	Phe	Asp	Phe	Ala	Leu 45	Asn	Met	Leu
Val	Ala 50	Ile	Thr	Val	Leu	Ile 55	Tyr	Pro	Asn	Ser	Ile 60	Gln	Glu	Tyr	Ile
Arg 65	Gln	Leu	Pro	Pro	Asn 70	Phe	Pro	Tyr	Arg	Asp 75	Asp	Val	Met	Ser	Val 80
Asn	Pro	Thr	Cys	Leu 85	Val	Leu	Ile	Ile	Leu 90	Leu	Phe	Ile	Ser	Ile 95	Ile
Leu	Thr	Phe	Lys 100	Gly	Tyr	Leu	Ile	Ser 105	Cys	Val	Trp	Asn	Cys 110	Tyr	Arg
Tyr	Ile	Asn 115	Gly	Arg	Asn	Ser	Ser 120	Asp	Val	Leu	Val	Tyr 125	Val	Thr	Ser
Asn	Asp 130	Thr	Thr	Val	Leu	Leu 135	Pro	Pro	Tyr	Asp	Asp 140	Ala	Thr	Val	Asn
Gly 145	Ala	Ala	Lys	Glu	Pro 150	Pro	Pro	Pro	Tyr	Val 155	Ser	Ala			

<210> 245
 <400> 245
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<210> 246
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<210> 249
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<210> 250

<400> 250
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<210> 251
<211> 81
<212> PRT
<213> homo sapiens

<400> 251

Ala 1	Thr	Lys	Thr	Val 5	Pro	Arg	Gln	Arg	Trp 10	Ser	Pro	Pro	His	Cys 15	Pro
Arg	Pro	Asn	Pro 20	Ser	Leu	Asn	Leu	Leu 25	Arg	Cys	Gly	Trp	Gly 30	Asn	Arg
Gly	Lys	Thr 35	Glu	Ala	Pro	Asp	Ala 40	Phe	Ser	Leu	Leu	Cys 45	Ser	Ser	Ala
Ile	Asp 50	Cys	Pro	Asp	Val	Gln 55	Arg	Glu	Thr	His	Thr 60	Arg	Phe	Ala	His
Glu 65	Asn	Trp	Gly	Ala	Asp 70	Gly	Gln	Ala	Asp	Arg 75	Leu	Cys	Leu	Phe	Ser 80

Glu

<210> 252
<211> 97
<212> PRT
<213> homo sapiens

<400> 252

Gly 1	Val	Asp	Gly	Glu 5	Thr	Glu	Ala	Lys	Leu 10	Arg	His	Leu	Met	His 15	Ser
Ala	Cys	Cys	Ala 20	Ala	Val	Pro	Leu	Thr 25	Ala	Leu	Met	Phe	Arg 30	Glu	Lys
Arg	Thr	Gln 35	Gly	Leu	Pro	Met	Arg 40	Ile	Gly	Glu	Gln	Met 45	Ala	Lys	Gln
Ile	Gly 50	Tyr	Val	Cys	Phe	Leu 55	Ser	Asp	Glu	Val	Arg 60	Lys	Pro	Cys	Gly
Ser 65	Gly	Gly	His	Leu	Trp 70	Phe	Ile	Leu	Phe	Pro 75	Tyr	Pro	Trp	Leu	Leu 80
Glu	Met	Val	Thr	Phe 85	Arg	Thr	Val	Gln	Leu 90	His	Leu	Ser	Glu	His 95	Tyr

Cys

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<212> PRT
 <213> homo sapiens

<400> 253

Leu 1	Glu	Ile	Leu	Gly 5	Ile	Phe	Ser	Arg	Val 10	Ser	Lys	Leu	Ser	Ser 15	Ser
Pro	Thr	Asp	Thr 20	His	Pro	Ser	Ser	Gln 25	Ile	Gly	Val	Ala	Ile 30	Leu	Gly
Gly	Arg	Val 35	Val	Tyr	Gly	Thr	Pro 40	Gly	Cys	Leu	His	Ile 45	Ser	Gln	Asn
Tyr	Pro 50	Arg	Thr	Ile	Val	Pro 55	Lys	Ser	Arg	Val	Phe 60	Thr	Gly	Arg	Gln
Asn 65	Leu	Phe	Ser	Met	Pro 70	Val	Pro	Gln	Leu	Leu 75	Ser	Gln	Ile	Pro	Ile 80
Leu	Gly	Ser	His	Gln 85	Leu	Pro	Ile	Pro	His 90	Gln	Thr	Ala	Thr	Val 95	Pro
Ser	Leu	Ser	Pro 100	Tyr	Cys	Ser	Phe	Lys 105	Ser	Cys	Ser	Gln	Glu 110	Arg	Asn
Cys	His														

<210> 254
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 <212> PRT
 <213> homo sapiens

<400> 254

Ile 1	Pro	Ser	Pro	Gln 5	Gly	Pro	Phe	Cys	Arg 10	Ser	Tyr	Ser	Asp	Pro 15	Arg
Lys	Cys	Pro	Phe 20	Pro	Ile	Val	Val	Leu 25	Cys	Leu	Trp	Gly	Leu 30	Val	Tyr
Pro	Arg	Gly 35	Asn	Cys	Gly	Glu	Ile 40	Ile	Gly	Leu	Arg	Val 45	Lys	Arg	Ala
Leu	Val 50	Leu	Glu	Leu											

<210> 255
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 <212> PRT
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<400> 255

Gln 1	Val	Asp	Thr	Leu 5	Ile	Ser	Thr	Arg	Lys 10	Gly	Leu	Lys	Leu	Gln 15	Asn
----------	-----	-----	-----	----------	-----	-----	-----	-----	-----------	-----	-----	-----	-----	-----------	-----

Gln Cys Ser Leu Asp Ser Gln Thr Asn Asp Phe Ser Thr Val Thr Pro
 20 25 30

Gly Ile Asp
 35

<210> 256
 <211> 41
 <212> PRT
 <213> homo sapiens

<400> 256

Thr Lys Pro Gln Arg His Arg Thr Thr Met Gly Lys Gly His Phe Leu
 1 5 10 15
 Gly Ser Glu Tyr Asp Leu Gln Asn Gly Pro Cys Gly Leu Gly Ile Tyr
 20 25 30

Pro Tyr Ala Val Pro Trp Ser Asn Ala
 35 40

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<210> 258
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<400> 260

Gly Ser Val Lys Val Pro Ala Ser Pro Arg Pro Gly Gly Thr Ser Leu
 1 5 10 15
 Leu Gly Pro Val Ala Ala Lys Glu Leu Ser Phe Ser Arg Pro Asn Gly
 20 25 30
 Arg Arg Gly Gln Leu Pro Arg Pro Pro Gly Ser Leu Thr Leu Leu Leu
 35 40 45
 Phe Phe Ser Ser Pro Ala Ser Arg Gly Pro Ala Ser Leu Ser Pro Gly
 50 55 60
 Gly Ile Arg Leu Leu Leu Pro Pro Pro Pro His Leu Leu Pro Gly Gln
 65 70 75 80
 Pro Ala Cys Pro Ala Ala Val Met Cys Asp Lys Glu Phe Met Trp Ala
 85 90 95

101

Leu	Lys	Asn	Gly 100	Asp	Leu	Asp	Glu	Val 105	Lys	Asp	Tyr	Val	Ala 110	Lys	Gly
Glu	Asp	Val 115	Asn	Arg	Thr	Leu	Glu 120	Gly	Gly	Arg	Lys	Pro 125	Leu	His	Tyr
Ala	Ala 130	Asp	Cys	Gly	Gln	Leu 135	Glu	Ile	Leu	Glu	Phe 140	Leu	Leu	Leu	Lys
Gly 145	Ala	Asp	Ile	Asn	Ala 150	Pro	Asp	Lys	His	His 155	Ile	Thr	Pro	Leu	Leu 160
Ser	Ala	Val	Tyr	Glu 165	Gly	His	Val	Ser	Cys 170	Val	Lys	Leu	Leu	Leu 175	Ser
Lys	Gly	Ala	Asp 180	Lys	Thr	Val	Lys	Gly 185	Pro	Asp	Gly	Leu	Thr 190	Ala	Phe
Glu	Ala	Thr 195	Asp	Asn	Gln	Ala	Ile 200	Lys	Ala	Leu	Leu	Gln 205			

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<210> 262

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<213> homo sapiens

<400> 264

Arg 1	Asn	Met	Ser	Ser 5	Phe	Ser	Arg	Ala	Pro 10	Gln	Gln	Trp	Ala	Thr 15	Phe
Ala	Arg	Ile	Trp 20	Tyr	Leu	Leu	Asp	Gly 25	Lys	Met	Gln	Pro	Pro 30	Gly	Lys
Leu	Ala	Ala 35	Met	Ala	Ser	Ile	Arg 40	Leu	Gln	Gly	Leu	His 45	Lys	Pro	Val
Tyr	His 50	Ala	Leu	Ser	Asp	Cys 55	Gly	Asp	His	Val	Val 60	Ile	Met	Asn	Thr
Arg 65	His	Ile	Ala	Phe	Ser 70	Gly	Asn	Lys	Trp	Glu 75	Gln	Lys	Val	Tyr	Ser 80

Ser His Thr Gly Tyr 85 Pro Gly Gly Phe Arg 90 Gln Val Thr Ala Ala 95 Gln

Leu His Leu Arg 100 Asp Pro Val Ala Ile 105 Val Lys Leu Ala Ile 110 Tyr Gly

Met Leu Pro 115 Lys Asn Leu His Arg 120 Arg Thr Met Met Glu 125 Arg Leu His

Leu Phe 130 Pro Asp Glu Tyr Ile 135 Pro Glu Asp Ile Leu 140 Lys Asn Leu Val

Glu 145 Glu Leu Pro Gln Pro 150 Arg Lys Ile Pro Lys 155 Arg Leu Asp Glu Tyr 160

Thr Gln Glu Glu Ile 165 Asp Ala Phe Pro Arg 170 Leu Trp Thr Pro Pro 175 Glu

Asp Tyr Arg Leu 180

<210> 265

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<212> PRT

<213> homo sapiens

<400> 265

Val 1 Ile Gly Tyr Pro 5 Ser Arg Ile Asn Ser 10 Glu Pro Ser Pro Val 15 Ile

Tyr Asn Arg Pro 20 Gly Asn Asn Val Lys 25 Leu Asn Cys Met Ala 30 Met Gly

Ile Ser Lys 35 Ala Asp Ile Thr Trp 40 Glu Leu Thr Asp Lys 45 Ser His Leu

Lys Ala 50 Gly Val Gln Ala Arg 55 Leu Tyr Gly Asn Arg 60 Phe Leu Gln Pro

Gln 65 Gly Ser Met Thr His 70 Ser Ala Cys His Lys 75 Glu Gly Trp

<210> 266

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<212> PRT

<213> homo sapiens

<400> 266

Ala 1 Thr Pro Leu Cys 5 Gly Met Leu Asn Gly 10 Ser Leu Ile Pro Gly 15 Val

Glu Glu Ile Cys 20 Phe His Thr Asp Glu 25 Pro Glu Pro Leu Pro 30 Ser Asp

Ala Thr Tyr Pro Leu Thr Pro Thr
35 40

<210> 267
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<212> PRT
<213> homo sapiens

<400> 267

Val 1	Gly	Ile	Trp	Gln 5	Glu	Asp	His	Leu	Pro 10	Gln	Ser	Leu	Gly	Phe 15	Leu
Asn	Lys	Lys	Glu 20	Ile	Val	Phe	Leu	Ser 25	Trp	Leu	Leu	Arg	Leu 30	Leu	Lys
Leu	Ala	Leu 35	Pro	Leu	Lys	Tyr	Asp 40	Ile	Ser	Phe	Ala	Val 45	Leu	Asn	Leu
Lys	Leu 50	Val	Ala	Ser	Ser	Val 55	Ala	His	Phe	Gln	Phe 60	Leu	Tyr	Gln	Ala
Ser 65	Leu	Leu	Ser	Phe	Pro 70	Leu	Arg	Met	Gly	Gln 75	Val	Cys	Ser	Gly	Gly 80
His	Ser	Val	Arg	Phe 85	Ser	Arg	Gly	Phe	Gly 90	Arg	Gly	Phe	Lys	Gly 95	Lys
Tyr	Ser	Gly	Gly 100	Arg	Met	Gly	Ser	Gly 105	Val	Lys	Val	Gly	Asp 110	Lys	Gly
Gly	Arg	Ala 115	Lys	Gly	Gly	Val	Glu 120	Gly	Trp	Gly	Pro	Tyr 125	Leu	Asp	Arg
Gly	Met 130	Pro	Gly	Gly	Gln	Gly 135	Lys								

<210> 268
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<212> PRT
<213> homo sapiens

<400> 268

Leu 1	Val	Tyr	Pro	Lys 5	Gln	Gly	Thr	Lys	Glu 10	Pro	Gly	Lys	Arg	Ser 15	Gly
His	Val	Lys	Arg 20	Asp	Thr	Gln	Asp	Thr 25	Leu	Arg	Asp	Gln	Ser 30	Gly	Ser
Thr	Pro	Val 35	Leu	Leu	Pro	Glu	Cys 40	Leu	Cys	Val	Asn	Pro 45	Cys	Phe	Leu
Gln	Asn	Lys	Arg	Gln	Gln	Arg	Lys	Leu	Leu	Asn	Gln	Asn	Thr	Asp	Pro

50 104 60

Met 65	Arg	Asn	Gly	Ala	Cys 70	Phe	Cys	Asp	Pro	Gly 75	Glu	Leu	Ser	Ala	Arg 80
-----------	-----	-----	-----	-----	-----------	-----	-----	-----	-----	-----------	-----	-----	-----	-----	-----------

Leu	Gln	Glu	Leu	Thr 85	Asp	Gly	Gln	Leu	Leu 90	Ile	Phe
-----	-----	-----	-----	-----------	-----	-----	-----	-----	-----------	-----	-----

<210> 269
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<400> 269

Asn 1	Leu	Val	Tyr	Thr 5	Met	Trp	Leu	Gln	Ile 10	Tyr	Val	Asn	Val	His 15	Phe
----------	-----	-----	-----	----------	-----	-----	-----	-----	-----------	-----	-----	-----	-----	-----------	-----

Glu	His	Ile	Tyr 20	Val	Leu	Trp	Lys	Glu 25	Met	Leu	Val	Thr	Lys 30	Ile	Arg
-----	-----	-----	-----------	-----	-----	-----	-----	-----------	-----	-----	-----	-----	-----------	-----	-----

Phe	Thr	Leu 35	Lys	Glu	Glu	Glu	Phe 40	Tyr	Ser	Lys	His	Ser 45	Asn	Ile	Leu
-----	-----	-----------	-----	-----	-----	-----	-----------	-----	-----	-----	-----	-----------	-----	-----	-----

Phe	Lys 50	Cys	Phe	Lys	Ile	Gln 55	Ser	Ile	Val	Phe	Lys 60	Val	Ala	Val	Lys
-----	-----------	-----	-----	-----	-----	-----------	-----	-----	-----	-----	-----------	-----	-----	-----	-----

Ala 65	Ser	Thr	Tyr	Val	Lys 70	Thr	Gln	Lys	Glu	Gly 75	Ser	Ser	Asp	Lys	Asn 80
-----------	-----	-----	-----	-----	-----------	-----	-----	-----	-----	-----------	-----	-----	-----	-----	-----------

Thr	Ala	Pro	Leu	Leu 85	Cys	Cys	Phe	Ser	Cys 90	Ser	Leu	Tyr	Thr	Leu 95	Ser
-----	-----	-----	-----	-----------	-----	-----	-----	-----	-----------	-----	-----	-----	-----	-----------	-----

Lys	His	Leu	Leu 100	Ser	Gly	Ala
-----	-----	-----	------------	-----	-----	-----

<210> 270
 <211> 82
 <212> PRT
 <213> homo sapiens

<400> 270

Phe 1	Ile	Tyr	Lys	Gln 5	Ser	Lys	Val	Arg	Asp 10	Ile	Phe	Ala	Val	Thr 15	Leu
----------	-----	-----	-----	----------	-----	-----	-----	-----	-----------	-----	-----	-----	-----	-----------	-----

Ala	Ile	Leu	Ser 20	Leu	Gln	Ser	Pro	Thr 25	Ser	Arg	Val	Gln	Cys 30	Thr	Ser
-----	-----	-----	-----------	-----	-----	-----	-----	-----------	-----	-----	-----	-----	-----------	-----	-----

Asn	Asn	Ser 35	Leu	Lys	Thr	Arg	His 40	Leu	Thr	Ile	Ser	Val 45	Tyr	Leu	Val
-----	-----	-----------	-----	-----	-----	-----	-----------	-----	-----	-----	-----	-----------	-----	-----	-----

Cys	Lys 50	Val	Asn	Lys	Lys	Ser 55	Ser	Ile	Ile	Lys	Glu 60	Leu	Cys	Phe	Tyr
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105

Gln	Arg	Ser	Leu	Pro	Ser	Glu	Phe	Leu	His	Lys	Leu	Met	Pro	Ser	Leu
65					70					75					80

Gln Leu

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<210> 272
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<210> 273
<400> 273
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<210> 274
<211> 95
<212> PRT
<213> homo sapiens

<400> 274

Gln	Gln	His	His	Leu	Pro	Gln	Ser	Leu	Gly	Phe	Leu	Asn	Lys	Lys	Glu
1				5					10					15	
Val	Val	Phe	Leu	Thr	Trp	Leu	Leu	Arg	Leu	Leu	Lys	Leu	Ala	Leu	Pro
			20					25					30		
Leu	Lys	Tyr	Asp	Ile	Ser	Phe	Ala	Val	Leu	Asn	Leu	Lys	Leu	Val	Ala
		35					40					45			
Ser	Ser	Val	Pro	His	Phe	Gln	Phe	Leu	Tyr	Gln	Ala	Ser	Leu	Leu	Ser
	50					55					60				
Phe	Pro	Ile	Arg	Met	Asp	Met	Cys	Cys	Ser	Ala	Cys	His	Val	Cys	Asn
65					70					75					80
Ala	Ser	Cys	Arg	Glu	Phe	Gly	His	Ser	Ile	Lys	Glu	Lys	Ile	Gln	
				85					90					95	

<210> 275
<211> 56
<212> PRT
<213> homo sapiens

<400> 275

Leu	Leu	His	Gln	Tyr	His	Thr	Ser	Ser	Phe	Tyr	Thr	Lys	Pro	Val	Ser
1				5					10					15	
Ser	Val	Phe	Pro	Leu	Glu	Trp	Thr	Cys	Ala	Val	Gln	Arg	Val	Met	Ser
			20					25					30		
Val	Met	Leu	His	Ala	Glu	Ser	Leu	Val	Ile	Val	Leu	Lys	Arg	Lys	Tyr
		35					40					45			

Ser Glu Val Thr Met Ser Pro Glu 106
 50 55

<210> 276
 <211> 69
 <212> PRT
 <213> homo sapiens

<400> 276

His	Ala	Glu	Gln	His	Met	Ser	Ile	Leu	Met	Gly	Lys	Leu	Arg	Arg	Leu
1				5					10					15	
Ala	Trp	Tyr	Arg	Asn	Trp	Lys	Cys	Gly	Thr	Asp	Glu	Ala	Thr	Asn	Phe
			20					25					30		
Lys	Phe	Arg	Thr	Ala	Lys	Leu	Met	Ser	Tyr	Phe	Lys	Gly	Arg	Ala	Asn
		35					40					45			
Phe	Asn	Asn	Leu	Asn	Asn	Gln	Val	Lys	Asn	Thr	Thr	Ser	Phe	Leu	Leu
	50					55					60				
Arg	Asn	Pro	Asn	Asp											
65															

<210> 277
 <211> 95
 <212> PRT
 <213> homo sapiens

<400> 277

Tyr	Ile	Leu	Glu	Ile	Ser	Pro	Leu	Lys	Pro	Ser	Leu	Ala	Pro	Thr	Ser
1				5					10					15	
Cys	Gly	Leu	Met	Pro	Gln	Gly	Phe	Pro	Pro	His	Phe	Cys	Asn	Pro	Arg
			20					25					30		
Tyr	Pro	Ser	Leu	Ser	Thr	Pro	Ser	Gln	Thr	Pro	Thr	Pro	Gly	Ile	Ala
		35					40					45			
Arg	Glu	Asp	Phe	Gly	Leu	Ala	Asn	Cys	Val	Gly	Tyr	Val	Ser	Val	Val
	50					55					60				
Leu	Ile	Arg	Asp	Val	His	Asp	Cys	Gln	Ser	Ala	Phe	Leu	Thr	Ser	Val
65					70					75					80
Thr	Thr	Leu	Leu	Arg	Cys	Asn	Ser	Ser	Gln	Lys	Lys	Thr	Phe	Ser	
				85					90					95	

<210> 278
 <211> 133
 <212> PRT
 <213> homo sapiens

<400> 278

Pro Thr Gln Phe Ala Arg Pro Lys Ser Ser Arg Ala Ile Pro Gly Val

1				5				107				10				15			
Gly	Val	Trp	Asp 20	Gly	Val	Asp	Asn	Glu 25	Gly	Tyr	Leu	Gly	Leu 30	Gln	Lys				
Trp	Gly	Gly 35	Asn	Pro	Trp	Gly	Ile 40	Ser	Pro	Gln	Glu	Val 45	Gly	Ala	Ser				
Asp	Gly 50	Phe	Arg	Gly	Asp	Ile 55	Ser	Asn	Ile	Tyr	Gln 60	Pro	Trp	Ala	Leu				
Ser 65	Pro	Cys	Cys	Ser	Gln 70	His	Gly	Pro	His	Thr 75	Ser	Ser	Leu	Arg	Leu 80				
Thr	Trp	Glu	Leu	Val 85	Arg	Asn	Ala	Gly	Ser 90	Pro	Arg	Ser	Ile	Glu 95	Leu				
Glu	Ala	Val	Leu 100	Thr	Arg	Ser	Pro	Val 105	Ile	Phe	Met	Ala	Gln 110	Ser	Ser				
Phe	Leu	Arg 115	Asp	Arg	Cys	Arg	Leu 120	Leu	Ser	Ala	Gly	Met 125	Arg	His	Pro				
Trp	Gly 130	Arg	Cys	Gly															
<210> 279																			
<211> 102																			
<212> PRT																			
<213> homo sapiens																			
<400> 279																			
Leu 1	Lys	Gln	His	Ser 5	His	Asn	Gln	His	Asn 10	Leu	Leu	Gly	Gln	Ser 15	Leu				
His	Gly	Gln	Ser 20	Leu	Gly	Trp	Glu	Ser 25	Gly	Met	Gly	Trp	Ile 30	Met	Lys				
Asp	Thr	Trp 35	Gly	Cys	Arg	Ser	Gly 40	Val	Gly	Ile	Pro	Gly 45	Ala	Ser	Val				
His	Arg 50	Arg	Trp	Gly	Pro	Ala 55	Met	Ala	Ser	Gly	Val 60	Ile	Phe	Pro	Ile				
Tyr 65	Ile	Ser	Pro	Gly	His 70	Ser	Arg	Pro	Ala	Ala 75	His	Ser	Met	Val	Leu 80				
Thr	Pro	Ala	Ala	Ser 85	Ala	Leu	Pro	Gly	Ser 90	Leu	Leu	Glu	Met	Gln 95	Asp				
Leu	Pro	Asp	Leu 100	Leu	Ser														

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<210> 280
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<210> 281
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<400> 284

[illegible]

65

<210> 285
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 <212> PRT
 <213> homo sapiens

<400> 285

Leu	Thr	Thr	Ser	Ser	Phe	Glu	His	Ser	Ile	Gly	Phe	Leu	Glu	Ile	Lys
1				5					10					15	
Val	Leu	Phe	Ser	Leu	Leu	Cys	Leu	Gly	Asn	Phe	Glu	Glu	Lys	Leu	Val
			20					25					30		
Leu	Pro	Leu	Thr	Val	Leu	Gly	Leu	Cys	Leu	Cys	Leu	Gln	Lys	Leu	Lys
		35					40					45			
Trp	Leu	Thr	His	Lys	Leu	Ser	Ser	Ala	Ala	Glu					
	50					55									

<210> 286
 <211> 65
 <212> PRT
 <213> homo sapiens

<400> 286

Gly	Lys	Glu	Pro	Gln	Pro	Glu	Ser	Asn	Ser	Ile	Met	Val	Lys	Phe	Pro
1				5					10					15	
Thr	Glu	Ser	Ser	Cys	Glu	Trp	Val	Ile	Arg	Lys	Asn	Glu	Asp	Pro	Lys
			20					25					30		
Asp	Lys	Asn	Gln	Arg	Gln	Met	Gly	Ser	Val	Thr	Gly	Ser	Leu	Ser	Ser
		35					40					45			
Ile	Leu	Asn	Pro	Ile	Glu	Tyr	Cys	Gly	Leu	Thr	Lys	Cys	Gln	Gly	Gly
	50					55					60				

Asp
 65

<210> 287
 <211> 48
 <212> PRT
 <213> homo sapiens

<400> 287

Phe	Leu	Ser	Phe	Gly	Ser	Ser	Phe	Phe	Leu	Ile	Thr	His	Ser	Gln	Asp
1				5					10					15	
Asp	Ser	Val	Gly	Asn	Leu	Thr	Met	Ile	Glu	Leu	Leu	Ser	Gly	Trp	Gly
			20					25					30		
Ser	Phe	Pro	His	Arg	Lys	Asp	Ile	Leu	Lys	Thr	Lys	Lys	Tyr	Leu	Asn
		35					40					45			

<210> 288
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 <212> PRT
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<400> 288

Ala	Arg	Asn	Ile	Gln	Ser	Asp	Leu	Glu	Trp	Met	Ile	Lys	Ile	Gln	Ser
1				5					10					15	
Gln	Thr	Pro	Ser	Val	Phe	Asp	Phe	Cys	Leu	Leu	Asp	Pro	His	Phe	Ser
			20					25					30		

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<210> 291
 <400> 291
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<210> 292
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 <213> homo sapiens

<400> 292

Cys	Ala	Lys	Leu	Glu	Thr	Gly	Phe	Asp	Phe	Leu	Ser	Tyr	Leu	Phe	Ala
1				5					10					15	
Phe	Cys	Ala	Ser	Pro	Ser	Asn	Leu	Val	His	Leu	Ser	Ser	His	Ser	Cys
			20					25					30		
Tyr	Phe	Gln	Val	Lys	Gln	Asp	Ile	Leu	Gly	Val	Lys	Ser	Leu	Trp	Val
		35					40					45			
Phe	Cys	Phe	Tyr	Val	Tyr	Lys	Asn	Gly	Phe	Cys	Val	Pro	Phe	Pro	Cys
	50					55					60				
Lys	Tyr	Gln	Leu	Ile	Trp	Lys	Leu	Thr	Ile	Ile	Met				
65					70					75					

<210> 293
 <211> 63
 <212> PRT
 <213> homo sapiens

<400> 293

Val	Glu	Leu	Ser	Leu	Leu	Phe	Pro	Gln	Leu	Ser	Gln	Leu	Leu	Val	Asn
1				5					10					15	
Phe	Lys	Glu	Ala	Gly	His	Asp	Asp	Ser	His	Leu	Leu	Ser	Gln	Asn	Phe
			20					25					30		

Gly	Arg	Arg	Arg	Trp	Ala	Asp	111 Ser 40	Leu	Ser	Pro	Gly	Val	Gln	Asp	Glu
		35										45			

Pro	Gly	Gln	Tyr	Gly	Pro	Thr	Ser	Ser	Leu	Thr	Lys	His	Pro	His
	50					55					60			

<210> 294
 <211> 73
 <212> PRT
 <213> homo sapiens

<400> 294

Pro	Pro	Lys	Cys	Leu	Val	Ser	Leu	Glu	Asn	Asn	Met	Asn	Glu	Thr	Lys
1				5					10					15	
Asp	Glu	Pro	Asp	Tyr	Leu	Val	Thr	His	Arg	Arg	Arg	Thr	Ser	Ser	Ser
			20					25					30		

Gly	Asn	Gln	Ile	Leu	Phe	Gln	Ala	Trp	His	Ile	Lys	Gly	Lys	Lys	Gly
		35					40					45			

Ser	Glu	Arg	Arg	Val	Arg	Lys	Tyr	His	Leu	Lys	Pro	Gln	Lys	Ile	Trp
	50					55					60				

Gln	Lys	Thr	Ala	Ser	Lys	Ser	Ile	Arg
65					70			

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<210> 296
 <400> 296
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<210> 297
 <400> 297
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<210> 298
 <211> 132
 <212> PRT
 <213> homo sapiens

<400> 298

Pro	Leu	Gly	Pro	Ala	Ser	Ser	Ala	Phe	Gly	Pro	Ser	Gly	Ser	Lys	Ser
1				5					10					15	
Arg	Ser	Glu	Glu	Gly	Arg	Asp	Gly	Thr	Ala	Ser	Pro	Gly	Thr	Phe	Lys
			20					25					30		

Tyr	His	Pro	Trp	Ser	Pro	Leu	Ser	Ser	Leu	Arg	Glu	Trp	Thr	Ser	Gln
		35					40					45			

Ser	Thr	Ser	Ser	Gly	Leu	Ser	Asp	Leu	Leu	Leu	Cys	Leu	Tyr	Gln	Pro
	50					55					60				

112

Trp Gln Gly Ser Arg Ile His Leu Val Gly Ser Gly Pro Ser Gln Tyr
65 70 75 80

His Trp Gly Ser Asn Lys Phe Leu Glu Pro Gln Ser Leu Gly Pro Gly
85 90 95

Ser Gln Leu Ile Gly Asp Gly Val Pro Phe Gln Ala Arg Ala Glu Phe
100 105 110

Gly Thr Ser Gly His Glu Leu Glu Gly Asn Ser Val Ser Tyr Glu Leu
115 120 125

Gly Pro Trp Pro
130

<210> 299

<211> 70

<212> PRT

<213> homo sapiens

<400> 299

Glu Ser Arg Arg Gly Ala Leu Ala Gly Pro Leu Ser Lys Ala Gly Glu
1 5 10 15

Gly Arg Pro Gly Trp Tyr Leu Asn Val Pro Gly Met Leu Ser His Pro
20 25 30

Phe Leu Pro His Ser Tyr Ser Leu Thr Leu Met Ala Lys Ala Arg Asp
35 40 45

Ala Gly Pro Lys Gly Lys Asn Val Leu Ser Val Phe Ser Gly Phe Tyr
50 55 60

Ser Leu Val Ser Leu His
65 70

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<213> homo sapiens

<400> 300

Gly Val Lys Ala Arg Glu Tyr Arg Glu Asp Val Phe Thr Phe Arg Ala
1 5 10 15

Cys Val Ser Gly Phe Gly His Gln Gly Gln Arg Val Gly Val Arg Lys
20 25 30

Glu Gly Met Gly Gln His Pro Trp Asp Val Gln Val Pro Ser Trp Ser
35 40 45

Pro Phe Ser Ser Leu Arg Glu Trp Thr Ser Gln Ser Thr Ser Ser Gly
50 55 60

Leu 65	Ser	Asp	Leu	Leu	Leu 70	Cys	Leu	Tyr	Gln	Pro 75	Trp	Gln	Gly	Ser	Arg 80
Ile	His	Leu	Val	Gly 85	Ser	Gly	Pro	Ser	Gln 90	Tyr	His	Trp	Gly	Ser 95	Asn
Lys	Phe	Leu	Glu 100	Pro	Gln	Ser	Leu	Gly 105	Pro	Gly	Ser	Gln	Leu 110	Ile	Ala
Asp	Gly	Val 115	Pro	Phe	Lys	Leu	Val 120	Pro	Ala	Arg	Ala	Glu 125	Phe	Gly	Thr
Ser	Leu 130	Lys	Gly	Asn	Ser	Val 135	Thr	Tyr	Glu	Leu	Gly 140	Pro	Trp	Pro	
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Pro	Ser	Pro	Lys 20	Val	Trp	Ser	Cys	Arg 25	Gly	Cys	Arg	Gln	Gly 30	Pro	Thr
Lys	Phe	Asn 35	Gln	Val	Ser	Arg	Met 40	Gln	Thr	Pro	Ala	Pro 45	Val	Ser	Arg
Arg	Val 50	Gly	Leu	Ala	Val	Ser 55	Leu	Thr	Pro	Pro	Pro 60	Ser	Gly	Gln	Ser
Gly 65	Pro	Ser	Val	Met	Gly 70	Lys	Ala	Ala	Ala	Cys 75	Pro	Ala	Thr	Pro	Ala 80
Ser	Ala	Pro	Ser	Gln 85	Gly	Leu	Ser	Phe	Gly 90	Gly	Pro	Val	Ser	Cys 95	Trp
Pro	Gly	Ser	Pro 100	Leu	Leu	His	Leu	Ile 105	Gly	Gly	Arg	Gln	Leu 110	Leu	Asp

Leu	Cys	Pro 115	Gly	Cys	Gly	Arg	Ser 120	Leu	Pro	Phe	Ser	Ser 125	Ser	Ser	Ser
Ser	Ser 130	Val	Ser	Asn	Asp	Ser 135	Ala	Pro	Asp	Gly	Pro 140	Arg	Gly	Leu	Gly
Cys 145	Phe	Gly	Gly	Val	Val 150	Leu	Gly	Gly	Arg	Gly 155	Phe	Lys	Tyr	Leu	Leu 160
Tyr	Phe	Leu	Phe	Val 165	Ala	Ala	Thr	Gln	Gln 170	Ile	Leu	Leu	Leu	Gly 175	Arg
Ala	Ser	Ala	Phe 180	Leu	Lys	Arg	Asp	Val 185	Gly	Asp	Pro	Leu	Val 190	Val	Ala
Pro	Ala	Phe 195	Phe	Ala	Val	Ala	Gly 200	His	Leu	His	Gln	Ala 205	Val	Ala	Leu
Pro	Gly 210	Val	Arg	Val	Arg	Val 215	Arg	Asp	Gln	Glu	Thr 220	Met	Gln	Val	Ser
Gly 225	Leu	Gly	Gly	Ala	Leu 230	Gly	Leu	Gly	Arg	Leu 235	Ser	Gln	Glu	Leu	Arg 240
Gln	Ala	Leu	His	Ala 245	Arg	His	Pro	His	Asp 250	Val	Asp	Val	Val	Val 255	Thr
Ala	Glu	Gly	Leu 260	Asp	Glu	Arg	Glu	Val 265	Asp	Leu	Gln	Gly	Asp 270	Val	Ile
Leu	Leu	Leu 275	Leu	Val	Asn	Gly	Gln 280	Glu	Ala	Glu	Asp	His 285	Ala	Val	Trp
Val	His 290	Ile	His	Gln	Leu	Gly 295	Arg	Leu	Val	His	Pro 300	His	Cys	Glu	Ala
Ile 305	Leu	Ala	Leu	Ser	Gly 310	His	Gln	Lys	Leu	Leu 315	His	Arg	Gly	Gly	His 320
Arg	Leu	His	Leu	Leu 325	Arg	Arg	Val	Val	Ala 330	Arg	His	Glu	Leu	Phe 335	Gln
Arg	His	Val	Ala 340	Ile	Ile	Ile	His	Ser 345	Gly	Cys	Gly	Ser	Thr 350	Ala	Val
Pro	Arg	Glu 355	Lys	Leu	Gln	Asn	Pro 360	Ser	Gln	Arg	Ala	Gln 365	Asn	Leu	Pro

Thr	Glu	Leu	Glu	Arg	Ser	Ser	Lys	Thr	Phe	Gly	Lys	Gln	Arg	Asn	Pro
	370					375					380				

Ser	Arg	Lys	Gly	Gly	Lys	Ile	Tyr	Cys	Lys	Val	Leu	Gly	Glu	Asp	Asn
385					390					395					400

Pro	Gly	Ser	Cys	Gly	Asn	Gln	Arg
				405			

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<212> PRT

<213> homo sapiens

<400> 305

Gly	Trp	Gly	Val	Trp	Gln	Ala	Gly	Leu	Asp	Pro	Val	Leu	Gly	Pro	Pro
1				5					10					15	

Ser	Ser	Ala	Val	Pro	Ser	Leu	Leu	Leu	Gly	Val	Val	Ser	Met	Val	Trp
			20					25					30		

Pro	His	Leu	Gln	Leu	Cys	Leu	Ser	Ala	Val	Pro	Leu	Ala	Ser	Ser	Ser
		35					40					45			

Leu	Asn	Ser	Ala	Ala	Trp	Ser	Pro	Val	Ser	Ser	Arg	Ala	Arg	Gln	Gly
	50					55					60				

Trp	Gly	Gly	Trp	Cys	Trp	Gln	Gln	Leu	Leu	Ser	Trp	Cys	Asp	Leu	Ser
65					70					75					80

Gly	Leu	His	Leu	Arg	Gly	Arg	Asn	Gly	Pro	Gly	Tyr	Arg	Gly	Gln	Ile
				85					90					95	

His	Pro	Gly	Trp	Ser	Pro	Arg	Pro	Pro	Gly	Leu	Gly	Ala	Ala	Gly	Gly
			100					105					110		

Arg	Trp	Leu	Leu	Val	Gly	Arg	Trp	Pro	Ser	Cys	Leu	Ala	Cys	Leu	Pro
		115					120					125			

Cys	Leu	Ser	Ser	Ser	Pro	Asn	Ala	Leu	Ser	Val	Ser	Ala	Phe	Leu	Ala
	130					135					140				

Pro	Gly	Leu	Ser	Thr	Pro	Ser	Ala	Tyr	Lys	Ala	Val	Ser	Pro	Pro	Gln
145					150					155					160

Thr	Thr	Val	Trp	Leu	Gln	Pro	Ile	Arg
				165				

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<212> PRT

<213> homo sapiens

<400> 306

Ile 1	Leu	Gln	Leu	Gly 5	His	Gln	Phe	Pro	Leu 10	Val	Pro	Ala	Arg	Ala 15	Gly
Ala	Val	Gly	Val 20	Gly	Ser	Ser	Phe	Ser 25	Leu	Gly	Ala	Thr	Phe 30	Pro	Ala
Ser	Thr	Ser 35	Glu	Val	Gly	Met	Gly 40	Gln	Ala	Ile	Glu	Val 45	Arg	Phe	Ile
Gln	Ala 50	Gly	Val	Leu	Val	Leu 55	Arg	Ala	Trp	Gly	Leu 60	Leu	Gly	Gly	Ala
Gly 65	Cys	Trp	Trp	Glu	Gly 70	Gly	His	Arg	Ala	Trp 75	Leu	Val	Phe	Pro	Ala 80
Ser	Leu	Leu	Leu	Leu 85	Thr	Leu	Cys	Leu	Ser 90	Leu	Leu	Ser	Trp	Pro 95	Arg
Ala	Ser	Pro	Leu 100	Pro	Gln	Leu	Ile	Arg 105	Leu	Cys	Leu	Leu	Leu 110	Arg	Pro
Gln	Ser	Gly 115	Ser	Ser	Pro	Ser	Gly 120								

<210> 307

<211> 472

<212> PRT

<213> homo sapiens

<400> 307

Ser 1	Glu	Ser	Leu	Thr 5	His	Pro	Gly	Glu	Glu 10	Pro	Gly	Gly	Pro	Pro 15	Pro
Gly	Gly	Ala	Pro 20	Thr	Met	Ala	Thr	Pro 25	Leu	Val	Ala	Gly	Pro 30	Ala	Ala
Leu	Arg	Phe 35	Ala	Ala	Ala	Ala	Ser 40	Trp	Gln	Val	Val	Arg 45	Gly	Arg	Cys
Val	Glu 50	His	Phe	Pro	Arg	Val 55	Leu	Glu	Phe	Leu	Arg 60	Ser	Leu	Arg	Ala
Val 65	Ala	Pro	Gly	Leu	Val 70	Arg	Tyr	Arg	His	His 75	Glu	Arg	Leu	Cys	Met 80
Gly	Leu	Lys	Ala	Lys 85	Val	Val	Val	Glu	Leu 90	Ile	Leu	Gln	Gly	Arg 95	Pro
Trp	Ala	Gln	Val 100	Leu	Lys	Ala	Leu	Asn 105	His	His	Phe	Pro	Glu 110	Ser	Gly

Pro	Ile	Val 115	Arg	Asp	Pro	Lys	Ala 120	Thr	Lys	Gln	Asp	Leu 125	Arg	Lys	Ile
Leu	Glu 130	Ala	Gln	Glu	Thr	Phe 135	Tyr	Gln	Gln	Val	Lys 140	Gln	Leu	Ser	Glu
Ala 145	Pro	Val	Asp	Leu	Ala 150	Ser	Lys	Leu	Gln	Glu 155	Leu	Glu	Gln	Glu	Tyr 160
Gly	Glu	Pro	Phe	Leu 165	Ala	Ala	Met	Glu	Lys 170	Leu	Leu	Phe	Glu	Tyr 175	Leu
Cys	Gln	Leu	Glu 180	Lys	Ala	Leu	Pro	Thr 185	Pro	Gln	Ala	Gln	Gln	Leu	Gln
Asp	Val	Leu 195	Ser	Trp	Met	Gln	Pro 200	Gly	Val	Ser	Ile	Thr 205	Ser	Ser	Leu
Ala	Trp 210	Arg	Gln	Tyr	Gly	Val 215	Asp	Met	Gly	Trp	Leu 220	Leu	Pro	Glu	Cys
Ser 225	Val	Thr	Asp	Ser	Val 230	Asn	Leu	Ala	Glu	Pro 235	Met	Glu	Gln	Asn	Pro 240
Pro	Gln	Gln	Gln	Arg 245	Leu	Ala	Leu	His	Asn 250	Pro	Leu	Pro	Lys	Ala 255	Lys
Pro	Gly	Thr	His 260	Leu	Pro	Gln	Gly	Pro 265	Ser	Ser	Arg	Thr	His 270	Pro	Glu
Pro	Leu	Ala 275	Gly	Arg	His	Phe	Asn 280	Leu	Ala	Pro	Leu	Gly 285	Arg	Arg	Arg
Val	Gln 290	Ser	Gln	Trp	Ala	Ser 295	Thr	Arg	Gly	Gly	His 300	Lys	Glu	Arg	Pro
Thr 305	Val	Met	Leu	Phe	Pro 310	Phe	Arg	Asn	Leu	Gly 315	Ser	Pro	Thr	Gln	Val 320
Ile	Ser	Lys	Pro	Glu 325	Ser	Lys	Glu	Glu	His 330	Ala	Ile	Tyr	Thr	Ala 335	Asp
Leu	Ala	Met	Gly 340	Thr	Arg	Ala	Ala	Ser 345	Thr	Gly	Lys	Ser	Lys 350	Ser	Pro
Cys	Gln	Thr 355	Leu	Gly	Gly	Arg	Ala 360	Leu	Lys	Glu	Asn	Pro 365	Val	Asp	Leu

Pro	Ala	Thr	Glu	Gln	Lys	Glu	Asn	Cys	Leu	Asp	Cys	Tyr	Met	Asp	Pro
	370					375					380				
Leu	Arg	Leu	Ser	Leu	Leu	Pro	Pro	Arg	Ala	Arg	Lys	Pro	Val	Cys	Pro
385					390					395					400
Pro	Ser	Leu	Cys	Ser	Ser	Val	Ile	Thr	Ile	Gly	Asp	Leu	Val	Leu	Asp
				405					410					415	
Ser	Asp	Glu	Glu	Glu	Asn	Gly	Gln	Gly	Glu	Gly	Lys	Glu	Ser	Leu	Glu
			420					425					430		
Asn	Tyr	Gln	Lys	Thr	Lys	Phe	Asp	Thr	Leu	Ile	Pro	Thr	Leu	Cys	Glu
		435					440					445			
Tyr	Leu	Pro	Pro	Ser	Gly	His	Gly	Ala	Ile	Pro	Val	Ser	Ser	Cys	Asp
	450					455					460				
Cys	Arg	Asp	Ser	Ser	Arg	Pro	Leu								
465					470										

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<213> homo sapiens

<400> 308

Pro	Gly	Phe	Ala	Leu	Arg	Gly	Ala	Ile	Gly	Pro	Arg	Glu	Gly	Arg	Gly
1				5					10					15	
Gly	Gly	Arg	Gly	Tyr	Arg	Arg	Ser	Ser	Gly	Arg	Gln	Pro	Leu	Val	Ser
			20					25					30		
Trp	Gln	Arg	Gln	Ala	Arg	Cys	Gly	Ser	Gly	Gly	Ala	Met	Ser	Phe	Cys
		35					40					45			
Ser	Phe	Phe	Gly	Gly	Glu	Val	Phe	Gln	Asn	His	Phe	Glu	Pro	Gly	Val
	50					55					60				
Tyr	Val	Cys	Ala	Lys	Cys	Gly	Tyr	Glu	Leu	Phe	Ser	Ser	Arg	Ser	Lys
65					70					75					80
Tyr	Ala	His	Ser	Ser	Pro	Trp	Pro	Ala	Phe	Thr	Glu	Thr	Ile	His	Ala
				85					90					95	
Asp	Ser	Val	Ala	Lys	Arg	Pro	Glu	His	Asn	Arg	Ser	Glu	Ala	Leu	Lys
			100					105					110		
Val	Ser	Cys	Gly	Lys	Cys	Gly	Asn	Gly	Leu	Gly	His	Glu	Phe	Leu	Asn
		115					120					125			

Asp Gly Pro Lys Pro Gly Gln Ser Arg Phe
130 135

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<211> 121
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<213> homo sapiens

<400> 309

Ser	Tyr	Gly	Ala	Thr	Ala	Ala	Phe	Leu	Ser	Arg	Ser	Glu	Ala	Ser	Tyr
1				5					10					15	
Phe	Arg	Thr	Asp	Cys	Glu	Thr	Gly	Phe	Arg	Phe	Leu	Pro	Ser	Trp	Thr
			20					25					30		
Arg	Gly	Gln	Gly	Cys	Ala	Pro	Ser	Ala	Cys	Leu	Pro	Ser	Arg	Ser	Gln
		35					40					45			
Thr	Ile	Pro	Thr	Leu	Ala	Gly	Leu	Glu	Gly	Phe	Asp	Gln	Ser	Gly	Ser
	50					55					60				
Cys	Ser	Asp	Gln	Gly	Gln	Gly	Gly	Trp	Gln	Gly	Arg	Pro	Pro	Phe	Pro
65					70					75					80
Phe	Cys	Leu	Leu	Ser	Ser	Leu	Gly	Asp	Val	Gly	Leu	Ser	Phe	Gly	Glu
				85					90					95	
Asp	Glu	Ser	Leu	Ser	Trp	Asn	Trp	Ala	Ser	Gln	Gly	Arg	Val	Gln	Arg
			100					105					110		
Gln	Gly	Gln	Glu	Lys	Lys	Val	Arg	Val							
		115					120								

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<212> PRT
<213> homo sapiens

<400> 310

Ser	Glu	Gln	Gly	Ala	Lys	Ser	Ala	Asp	Ser	Val	Ala	Ala	Gln	Pro	Arg
1				5					10					15	
Pro	Val	Pro	Ala	Glu	Gly	Met	Asn	His	Gln	Gln	Met	Ser	Leu	Phe	Ser
			20					25					30		
Lys	Lys	Arg	Lys	Gly	Leu	Val	Gln	Ser	Arg	Gly	Leu	Gly	Ser	Val	Leu
		35					40					45			
Met	Phe	Gln	Pro	Leu	Arg	Pro	Ala	Phe	Leu	Ser	Arg	Arg	Pro	Gly	Phe
	50					55					60				
Gln	Leu	Gln	Gly	Gly	Met	Ala	Asn	Val	Trp	Pro	Gln	Cys	Gly	Gly	Arg
65					70					75					80

Leu	Gly	Trp	Val	Trp 85	Ala	Ala	Arg	Leu	Val 90	Thr	Leu	Gly	Gly	Arg 95	Ser	
Phe	Phe	Ala	Phe 100	Arg	Asp	Lys	Leu	Gln 105	Arg	Ala	Ala	Glu	Tyr 110	Ser	Glu	
Ser	Gly	Leu 115	Pro	Arg	Leu	Gly	Ala 120	Val	Val	Gln	Glu	Leu 125	Val	Ala	Gln	
Pro	Ile 130	Ala	Thr	Leu	Ala	Thr 135	Gly	His	Leu	Gln	Gly 140	Phe	Arg	Ser	Ile	
Val 145	Leu	Arg	Thr	Leu	Gly 150	His	Ala	Val	Gly	Val 155	Asn	Gly	Leu	Gly	Glu 160	
Arg	Arg	Pro	Trp	Arg 165	Arg	Val	Cys	Ile	Leu 170	Arg	Ala	Ala	Gly	Glu 175	Gln	
Leu	Ile	Ala	Thr 180	Leu	Gly	Thr	His	Val 185	Asn	Ala	Arg	Phe	Lys 190	Val	Ile	
Leu	Glu	Asn 195	Leu	Ala	Pro	Glu	Glu 200	Ala	Ala	Glu	Arg	His 205	Gly	Ala	Thr	
Gly	Thr 210	Ala	Ala	Arg	Leu	Pro 215	Leu	Pro	Thr	Asp	Gln 220	Arg	Leu	Pro	Thr	
Arg 225	Arg	Pro	Pro	Val	Pro 230	Ala	Ser	Thr	Ser	Pro 235	Pro	Leu	Pro	Arg	Thr 240	
Asn	Arg	Ser	Pro	Glu 245	Gly	Glu	Ser	Arg								
<210>	311															
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<212>	PRT															
<213>	homo sapiens															
<400>	311															
Leu 1	Gly	Ser	Ser	Trp 5	Ile	Phe	Val	Asn	Leu 10	Thr	Val	Arg	Phe	Cys 15	Ile	
Leu	Gly	Lys	Glu 20	Ser	Phe	Tyr	Asp	Thr 25	Phe	His	Thr	Val	Ala 30	Asp	Met	
Met	Tyr	Phe 35	Cys	Gln	Met	Leu	Ala 40	Val	Val	Glu	Thr	Ile 45	Asn	Ala	Ala	
Ile	Gly 50	Val	Thr	Thr	Ser	Pro 55	Val	Leu	Pro	Ser	Leu 60	Ile	Gln	Leu	Leu	

Gly 65	Arg	Asn	Phe	Ile	Leu 70	Phe	Ile	Ile	Phe	Gly 75	Thr	Met	Glu	Glu	Met 80
Gln	Asn	Lys	Ala	Val 85	Val	Phe	Phe	Val	Phe 90	Tyr	Leu	Trp	Ser	Ala 95	Ile
Glu	Ile	Phe	Arg 100	Tyr	Ser	Phe	Tyr	Met 105	Leu	Thr	Cys	Ile	Asp 110	Met	Asp
Trp	Lys	Val 115	Leu	Thr	Trp	Leu	Arg 120	Tyr	Thr	Leu	Trp	Ile 125	Pro	Leu	Tyr
Pro	Leu 130	Gly	Cys	Leu	Ala	Glu 135	Ala	Val	Ser	Val	Ile 140	Gln	Ser	Ile	Pro
Ile 145	Phe	Asn	Glu	Thr	Gly 150	Arg	Phe	Ser	Phe	Thr 155	Leu	Pro	Tyr	Pro	Val 160
Lys	Ile	Lys	Val	Arg 165	Phe	Ser	Phe	Phe	Leu 170	Gln	Ile	Tyr	Leu	Ile 175	Met
Ile	Phe	Leu	Gly 180	Leu	Tyr	Ile	Asn	Phe 185	Arg	His	Leu	Tyr	Lys 190	Gln	Arg
Arg	Arg	Arg 195	Tyr	Gly	Gln	Lys	Lys 200	Lys	Lys	Ile	His				

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 <212> PRT
 <213> homo sapiens

<400> 312

Arg 1	Ile	Ser	Gly	Cys 5	Ser	Pro	Arg	Ser	Ser 10	Cys	Cys	Phe	Gln	Cys 15	Pro
Thr	Ala	Asp	Arg 20	Phe	Lys	Lys	Pro	Thr 25	Glu	Gln	Gln	Gln	Asn 30	Glu	Val
Phe	Leu	Arg 35	Ser	Ile	Gln	Lys	Cys 40	Thr	Val	Pro	Pro	Leu 45	Thr	Arg	Thr
Ser	Thr 50	Gln	Val	Asn	Gly	Leu 55	Ser	Gln	Cys	Arg	Arg 60	Trp	Lys	Ala	Ala
Ile 65	Phe	Tyr	Val	Cys	Ala 70	Gln	Pro	Tyr	Ser	Leu 75	Glu	Val	Cys	Leu	Ala 80
Tyr	Ser	Asn	Ile	Ser 85	Ser	Leu	Ser	Lys	Ala 90	Val	His	Cys	Tyr	Cys 95	Gln

Phe Asp Leu His Thr Val Phe Pro Leu Asp Pro Cys Tyr His Leu Asp
100 105 110

Leu Val Cys Val Cys Val Tyr Val Cys Leu Cys Val Cys Gly Leu Val
115 120 125

Trp Phe Glu Thr Gly Ser Cys Thr Val Thr Pro Gly Cys Ser Ala Val
130 135 140

Ala Gln Ser Arg Leu Thr Ala Ala Leu Thr Ser
145 150 155

<210> 313

<211> 70

<212> PRT

<213> homo sapiens

<400> 313

Ala Val Met Asp Gln Val Met Gln Phe Val Glu Pro Ser Arg Gln Phe
1 5 10 15

Val Lys Asp Ser Ile Arg Leu Val Lys Arg Cys Thr Lys Pro Asp Arg
20 25 30

Lys Glu Phe Gln Lys Ile Ala Met Ala Thr Ala Ile Gly Phe Ala Ile
35 40 45

Met Gly Phe Ile Gly Phe Phe Val Lys Leu Ile His Ile Pro Ile Asn
50 55 60

Asn Ile Ile Val Gly Gly
65 70

<210> 314

<211> 112

<212> PRT

<213> homo sapiens

<400> 314

Phe Arg Asn Arg Lys His Leu Glu Arg Lys Lys Lys Asn Pro Gln Asn
1 5 10 15

Ile Gln Ala Asn Leu Tyr Ser Val Ser Phe Ser His Pro His Thr Cys
20 25 30

Ser Pro Ile Ser Lys Met Lys Asn Ser Leu Pro Lys Cys Ile Gln Pro
35 40 45

Pro Thr Met Met Leu Leu Ile Gly Ile Trp Ile Asn Phe Thr Lys Lys
50 55 60

Pro Met Asn Pro Ile Ile Ala Asn Pro Ile Ala Val Ala Met Ala Ile

65					70	123				75				80			
Phe	Trp	Asn	Ser	Phe 85	Leu	Ser	Gly	Leu	Val 90	His	Leu	Leu	Thr	Ser 95	Arg		
Met	Glu	Ser	Phe 100	Thr	Asn	Cys	Arg	Leu 105	Gly	Ser	Thr	Asn	Cys 110	Ile	Thr		
<210> 315																	
<211> 110																	
<212> PRT																	
<213> homo sapiens																	
<400> 315																	
Asp 1	Glu	Lys	Leu	Ser 5	Ser	Lys	Met	Tyr	Ser 10	Ala	Thr	Asn	Asn	Asp 15	Val		
Ile	Asn	Arg	Asn 20	Met	Asp	Gln	Phe	His 25	Lys	Glu	Ala	Asn	Glu 30	Ser	His		
Tyr	Ser	Lys 35	Ser	Tyr	Cys	Cys	Cys 40	His	Gly	Asn	Leu	Leu 45	Glu	Phe	Phe		
Ser	Ile 50	Arg	Phe	Ser	Ala	Ser 55	Phe	Asn	Gln	Pro	Asn 60	Gly	Val	Leu	Tyr		
Lys 65	Leu	Pro	Thr	Trp	Leu 70	Asn	Lys	Leu	His	Tyr 75	Leu	Ile	His	Asp	Cys 80		
Leu	Pro	Asn	Arg	His 85	Leu	Lys	Cys	Gln	Gly 90	His	Val	Ala	Leu	Glu 95	Leu		
Ala	Asp	Gly	Gly 100	Pro	Pro	Glu	Pro	Glu 105	Ser	Gly	Phe	Leu	Pro 110				
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<211> 113																	
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<213> homo sapiens																	
<400> 316																	
Gly 1	Ser	Ser	Glu	Gly 5	Ser	Tyr	Ser	Ser	Gln 10	Thr	Glu	Thr	Cys	Pro 15	Leu		
Thr	Pro	Ser	Leu 20	Val	Thr	Gly	Ser	Met 25	Phe	Ala	Gln	Asn	Phe 30	Leu	Arg		
Gly	Leu	Ser 35	Leu	Gln	Lys	Ser	Asn 40	Leu	Leu	Pro	Glu	Cys 45	Cys	Leu	Ala		
Ser	Glu 50	Asn	Leu	Thr	Leu	Ser 55	Phe	Pro	Ser	Val	Asn 60	Gly	His	Arg	Cys		

Val 65	Ala	Gln	Gly	Ser	Glu 70	Thr	Ser	Glu	Ser	Arg 75	Ala	Gln	Trp	His	Gly 80
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Val	Ala	Leu	Val	Val 85	Arg	Lys	Val	Ile	Gly 90	Gln	Leu	Tyr	Cys	Lys 95	Arg
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Asn	Lys	Tyr	Val 100	Val	Gln	Phe	Cys	Lys 105	Cys	Gln	Val	Cys	Ser 110	Val	Val
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Leu

<210> 317

<211> 100

<212> PRT

<213> homo sapiens

<400> 317

Gly 1	Lys	Arg	Gly	Gln 5	Leu	Trp	Ser	Leu	Asn 10	Leu	Leu	Ala	Pro	Cys 15	Ala
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Gly	Tyr	Lys	Thr 20	Arg	Ser	Trp	Ser	Lys 25	Ile	Ala	Leu	Thr	Pro 30	Asn	Pro
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Asn	Ala	Val 35	Gln	Asp	Leu	Gly	Ala 40	Thr	Gln	Pro	Val	Val 45	Ile	Trp	Cys
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Trp	Phe 50	Pro	Phe	Phe	Val	Cys 55	Leu	Leu	Val	Ser	Lys 60	Ile	Ala	Leu	Leu
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Gly 65	Thr	Ala	Trp	Lys	Val 70	Gln	Ala	Phe	Leu	Leu 75	Ala	Arg	Ser	Gly	Leu 80
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Ala	Ser	Ser	Pro	Cys 85	Leu	His	Ser	Val	Pro 90	Lys	Glu	Asp	Phe	Cys 95	Ser
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Thr	Leu	Trp	Ser 100
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<210> 318

<211> 101

<212> PRT

<213> homo sapiens

<400> 318

Ser 1	Gln	Ile	Ile	Ser 5	Asn	Leu	Val	Asp	Asn 10	Tyr	Ser	Ile	Gln	Glu 15	Leu
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Met	Phe	Ser	Glu 20	Thr	Val	Ile	Asn	Arg 25	Ile	Phe	Thr	Ser	Gly 30	Leu	Ala
-----	-----	-----	-----------	-----	-----	-----	-----	-----------	-----	-----	-----	-----	-----------	-----	-----

Gly	Arg	Leu 35	Gly	Gly	Arg	Lys	Gly 40	Arg	Val	Glu	Gly	Trp 45	Val	Ala	His
-----	-----	-----------	-----	-----	-----	-----	-----------	-----	-----	-----	-----	-----------	-----	-----	-----

Gln	Asn 50	Gly	Asp	Glu	Pro	Gly 55	Lys	Thr	Thr	Met	Leu 60	Leu	Phe	Leu	Tyr
Pro 65	Leu	Lys	Pro	Ile	Ser 70	Arg	Val	Leu	Asn	Asp 75	Ala	Phe	Phe	Val	Cys 80
Phe	Leu	Ile	Gly	Ser 85	Gln	Ile	Ser	Phe	Ser 90	Ile	Lys	Asn	Trp	Gly 95	Tyr
Lys	Pro	Lys	Glu 100	Thr											

<210> 319
 <211> 368
 <212> PRT
 <213> homo sapiens
 <400> 319

Trp 1	Trp	Arg	Leu	Asn 5	Asn	Lys	Ser	Ala	Lys 10	Val	Arg	Gln	Gln	Ala 15	Ala
Asp	Leu	Ile	Ser 20	Arg	Thr	Ala	Val	Val 25	Met	Lys	Thr	Cys	Gln 30	Glu	Glu
Lys	Leu	Met 35	Gly	His	Leu	Gly	Val 40	Val	Leu	Tyr	Glu	Tyr 45	Leu	Gly	Glu
Glu	Tyr 50	Pro	Glu	Val	Leu	Gly 55	Ser	Ile	Leu	Gly	Ala 60	Leu	Lys	Ala	Ile
Val 65	Asn	Val	Ile	Gly	Met 70	His	Lys	Met	Thr	Pro 75	Pro	Ile	Lys	Asp	Leu 80
Leu	Pro	Arg	Leu	Thr 85	Pro	Ile	Leu	Lys	Asn 90	Arg	His	Glu	Lys	Val 95	Gln
Glu	Asn	Cys	Ile 100	Asp	Leu	Val	Gly	Arg 105	Ile	Ala	Asp	Arg	Gly 110	Ala	Glu
Tyr	Val	Ser 115	Ala	Arg	Glu	Trp	Met 120	Arg	Ile	Cys	Phe	Glu 125	Leu	Leu	Glu
Leu	Leu 130	Lys	Ala	His	Lys	Lys 135	Ala	Ile	Arg	Arg	Ala 140	Thr	Val	Asn	Thr
Phe 145	Gly	Tyr	Ile	Ala	Lys 150	Ala	Ile	Gly	Pro	His 155	Asp	Val	Leu	Ala	Thr 160
Leu	Leu	Asn	Asn	Leu 165	Lys	Val	Gln	Glu	Arg 170	Gln	Asn	Arg	Val	Cys 175	Thr

Thr	Val	Ala	Ile 180	Ala	Ile	Val	Ala	Glu 185	Thr	Cys	Ser	Pro	Phe 190	Thr	Val
Leu	Pro	Ala 195	Leu	Met	Asn	Glu	Tyr 200	Arg	Val	Pro	Glu	Leu 205	Asn	Val	Gln
Asn	Gly 210	Val	Leu	Lys	Ser	Leu 215	Ser	Phe	Leu	Phe	Glu 220	Tyr	Ile	Gly	Glu
Met 225	Gly	Lys	Asp	Tyr	Ile 230	Tyr	Ala	Val	Thr	Pro 235	Leu	Leu	Glu	Asp	Ala 240
Leu	Met	Asp	Arg	Asp 245	Leu	Val	His	Arg	Gln 250	Thr	Ala	Ser	Ala	Val 255	Val
Gln	His	Met	Ser 260	Leu	Gly	Val	Tyr	Gly 265	Phe	Gly	Cys	Glu	Asp 270	Ser	Leu
Asn	His	Leu 275	Leu	Asn	Tyr	Val	Trp 280	Pro	Asn	Val	Phe	Glu 285	Thr	Ser	Pro
His	Val 290	Ile	Gln	Ala	Val	Met 295	Gly	Ala	Leu	Glu	Gly 300	Leu	Arg	Val	Ala
Ile 305	Gly	Pro	Cys	Arg	Met 310	Leu	Gln	Tyr	Cys	Leu 315	Gln	Gly	Leu	Phe	His 320
Pro	Ala	Arg	Lys 325	Val	Arg	Asp	Val	Tyr	Trp 330	Lys	Ile	Tyr	Asn	Ser 335	Ile
Tyr	Ile	Gly	Ser 340	Gln	Asp	Ala	Leu	Ile 345	Ala	His	Tyr	Pro	Arg 350	Ile	Tyr
Asn	Asp	Asp 355	Lys	Asn	His	Leu	Ile 360	Ile	Arg	Leu	Met	Asn 365	Leu	Gly	Leu

<210> 320
 <211> 121
 <212> PRT
 <213> homo sapiens

<400> 320

Tyr 1	Pro	Phe	Phe	Thr 5	Leu	Cys	Gln	Arg	Asn 10	Arg	Val	Phe	Asp	Ile 15	Ser
Ser	Tyr	Val	Lys 20	Glu	Met	Leu	Gln	Asn 25	Val	Asn	Cys	Phe	Lys 30	Leu	Lys
Leu	Pro	Leu 35	Lys	Arg	Pro	Arg	Tyr 40	Ile	Tyr	Leu	Ile	Val 45	Tyr	Ile	Met

Phe	Asn	Ile	Cys	Gln	Ser	Ile	Leu	Gln	Val	Cys	Ser	Phe	Ile	Ser	Ile
	50					55					60				

Lys	Tyr	Gly	Tyr	Tyr	Val	Ala	Gln	Leu	Leu	Lys	Trp	Tyr	Cys	Ile	Val
65					70					75					80

Tyr	Ile	Cys	Thr	Pro	Asn	Asn	Ile	Val	Cys	Thr	Phe	Cys	Phe	Leu	Tyr
				85					90					95	

Cys	Ile	Cys	Ala	Gly	Phe	Phe	Arg	Leu	Tyr	Gln	Cys	Asn	Leu	Cys	Leu
			100					105					110		

Leu	Arg	Tyr	Val	Gln	Lys	Met	Ser	Ile
		115					120	

<210> 321

<211> 114

<212> PRT

<213> homo sapiens

<400> 321

Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	His	Ser	Asn	Val	Tyr	Phe
1				5					10					15	

Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Gly	Lys	Asn	Val	Ile	Tyr	Leu
			20					25					30		

His	Cys	Phe	His	Ser	Ser	Thr	Val	Val	Leu	Gly	Leu	Asn	Ile	Ser	Ile
		35					40					45			

Thr	Leu	Leu	Phe	Pro	Ile	Tyr	Ile	Leu	Leu	Glu	Tyr	Tyr	Tyr	Lys	Tyr
	50					55					60				

Asn	Ile	Gln	Phe	Lys	Lys	Thr	Tyr	Gly	Glu	Thr	Gln	Leu	Met	Phe	Phe
65					70					75					80

Ser	Pro	Leu	Tyr	Arg	Leu	Leu	Ser	Ile	Ile	Arg	Leu	Gln	Trp	Lys	Phe
				85					90					95	

Ile	Trp	Thr	Phe	Ser	Val	His	Ile	Leu	Lys	Gly	Arg	Asp	Tyr	Thr	Asp
			100					105					110		

Lys Ala

<210> 322

<211> 597

<212> PRT

<213> homo sapiens

<400> 322

Glu	Lys	Cys	Gly	Gln	Tyr	Ile	Gln	Lys	Gly	Tyr	Ser	Lys	Leu	Lys	Ile
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1	5					128					10			15		
Tyr	Asn	Cys	Glu 20	Leu	Glu	Asn	Val	Ala 25	Glu	Phe	Glu	Gly	Leu 30	Thr	Asp	
Phe	Ser	Asp 35	Thr	Phe	Lys	Leu	Tyr 40	Arg	Gly	Lys	Ser	Asp 45	Glu	Asn	Glu	
Asp	Pro 50	Ser	Val	Val	Gly	Glu 55	Phe	Lys	Gly	Ser	Phe 60	Arg	Ile	Tyr	Pro	
Leu 65	Pro	Asp	Asp	Pro	Ser 70	Val	Pro	Ala	Pro	Pro 75	Arg	Gln	Phe	Arg	Glu 80	
Leu	Pro	Asp	Ser	Val 85	Pro	Gln	Glu	Cys	Thr 90	Val	Arg	Ile	Tyr	Ile 95	Val	
Arg	Gly	Leu	Glu 100	Leu	Gln	Pro	Gln	Asp 105	Asn	Asn	Gly	Leu	Cys 110	Asp	Pro	
Tyr	Ile	Lys 115	Ile	Thr	Leu	Gly	Lys 120	Lys	Val	Ile	Glu	Asp 125	Arg	Asp	His	
Tyr	Ile 130	Pro	Asn	Thr	Leu	Asn 135	Pro	Val	Phe	Gly	Arg 140	Met	Tyr	Glu	Leu	
Ser 145	Cys	Tyr	Leu	Pro	Gln 150	Glu	Lys	Asp	Leu	Lys 155	Ile	Ser	Val	Tyr	Asp 160	
Tyr	Asp	Thr	Phe	Thr 165	Arg	Asp	Glu	Lys	Val 170	Gly	Glu	Thr	Ile	Ile 175	Asp	
Leu	Glu	Asn	Arg 180	Phe	Leu	Ser	Arg	Phe 185	Gly	Ser	His	Cys	Gly 190	Ile	Pro	
Glu	Glu	Tyr 195	Cys	Val	Ser	Gly	Val 200	Asn	Thr	Trp	Arg	Asp 205	Gln	Leu	Arg	
Pro	Thr 210	Gln	Leu	Leu	Gln	Asn 215	Val	Ala	Arg	Phe	Lys 220	Gly	Phe	Pro	Gln	
Pro 225	Ile	Leu	Ser	Glu	Asp 230	Gly	Ser	Arg	Ile	Arg 235	Tyr	Gly	Gly	Arg	Asp 240	
Tyr	Ser	Leu	Asp	Glu 245	Phe	Glu	Ala	Asn	Lys 250	Ile	Leu	His	Gln	His 255	Leu	
Gly	Ala	Pro	Glu 260	Glu	Arg	Leu	Ala	Leu 265	His	Ile	Leu	Arg	Thr 270	Gln	Gly	

Leu	Val	Pro 275	Glu	His	Val	Glu	Thr 280	Arg	Thr	Leu	His	Ser 285	Thr	Phe	Gln
Pro	Asn 290	Ile	Ser	Gln	Gly	Lys 295	Leu	Gln	Met	Trp	Val 300	Asp	Val	Phe	Pro
Lys 305	Ser	Leu	Gly	Pro	Pro 310	Gly	Pro	Pro	Phe	Asn 315	Ile	Thr	Pro	Arg	Lys 320
Ala	Lys	Lys	Tyr	Tyr 325	Leu	Arg	Val	Ile	Ile 330	Trp	Asn	Thr	Lys	Asp 335	Val
Ile	Leu	Asp	Glu 340	Lys	Ser	Ile	Thr	Gly 345	Glu	Glu	Met	Ser	Asp 350	Ile	Tyr
Val	Lys	Gly 355	Trp	Ile	Pro	Gly	Asn 360	Glu	Glu	Asn	Lys	Gln 365	Lys	Thr	Asp
Val	His 370	Tyr	Arg	Ser	Leu	Asp 375	Gly	Glu	Gly	Asn	Phe 380	Asn	Trp	Arg	Phe
Val 385	Phe	Pro	Phe	Asp	Tyr 390	Leu	Pro	Ala	Glu	Gln 395	Leu	Cys	Ile	Val	Ala 400
Lys	Lys	Glu	His	Phe 405	Trp	Ser	Ile	Asp	Gln 410	Thr	Glu	Phe	Arg	Ile 415	Pro
Pro	Arg	Leu	Ile 420	Ile	Gln	Ile	Trp	Asp 425	Asn	Asp	Lys	Phe	Ser 430	Leu	Asp
Asp	Tyr	Leu 435	Gly	Phe	Leu	Glu	Leu 440	Asp	Leu	Arg	His	Thr 445	Ile	Ile	Pro
Ala	Lys 450	Ser	Pro	Glu	Lys	Cys 455	Arg	Leu	Asp	Met	Ile 460	Pro	Asp	Leu	Lys
Ala 465	Met	Asn	Pro	Leu	Lys 470	Ala	Lys	Thr	Ala	Ser 475	Leu	Phe	Glu	Gln	Lys 480
Ser	Met	Lys	Gly	Trp 485	Trp	Pro	Cys	Tyr	Ala 490	Glu	Lys	Asp	Gly	Ala 495	Arg
Val	Met	Ala	Gly 500	Lys	Val	Glu	Met	Thr 505	Leu	Glu	Ile	Leu	Asn 510	Glu	Lys
Glu	Ala	Asp 515	Glu	Arg	Pro	Ala	Gly 520	Lys	Gly	Arg	Asp	Glu 525	Pro	Asn	Met

130

Asn	Pro	Lys	Leu	Asp	Leu	Pro	Asn	Arg	Pro	Glu	Thr	Ser	Phe	Leu	Trp
	530					535					540				
Phe	Thr	Asn	Pro	Cys	Lys	Thr	Met	Lys	Phe	Ile	Val	Trp	Arg	Arg	Phe
545					550					555					560
Lys	Trp	Val	Ile	Ile	Gly	Leu	Leu	Phe	Leu	Leu	Ile	Leu	Leu	Leu	Phe
				565					570					575	
Val	Ala	Val	Leu	Leu	Tyr	Ser	Leu	Pro	Asn	Tyr	Leu	Ser	Met	Lys	Ile
			580					585					590		
Val	Lys	Pro	Asn	Val											
		595													

<210> 323
 <211> 76
 <212> PRT
 <213> homo sapiens

<400> 323

Ile	Arg	Arg	Asp	Lys	Ala	Tyr	Leu	Thr	Phe	Lys	Trp	Arg	Asp	Asp	Glu
1				5					10					15	
Asn	Pro	Leu	Ile	Gln	Ser	Phe	Arg	Thr	Lys	Arg	Gln	Ser	Ser	Asp	Lys
			20					25					30		
Ser	Met	Thr	Trp	Met	Lys	Cys	Pro	Thr	Gly	Ala	Leu	Asp	Ile	Phe	Asn
		35					40					45			
Phe	Cys	Asp	Tyr	Val	Lys	Glu	Val	Asp	Phe	Thr	Asp	Asn	Gly	Ala	Glu
	50					55					60				
Ala	Asn	Ile	Ser	Lys	Arg	Asn	Pro	Asn	Phe	Phe	Pro				
65					70					75					

<210> 324
 <211> 90
 <212> PRT
 <213> homo sapiens

<400> 324

Phe	Phe	Leu	Tyr	Ser	Phe	Ser	Ser	Asp	Asn	His	Asp	Phe	Arg	Ser	Phe
1				5					10					15	
Lys	Thr	Ile	Tyr	Leu	Ala	Phe	Val	Ser	Gly	Gly	Glu	Leu	Ala	Ile	Ser
			20					25					30		
Leu	Leu	Lys	Pro	Ala	Ile	Ile	Val	Asn	Leu	Arg	Thr	Gly	Leu	Ser	Trp
		35					40					45			
Gly	Ser	Glu	Gly	Lys	Glu	Leu	Phe	Glu	Gln	Met	Cys	Val	Gly	Gly	Thr
	50					55					60				

Gly	Phe	His	Pro	Thr	Ala	Lys	Leu	Val	Leu	Leu	Glu	Ile	Ser	Phe	Tyr
65					70					75					80

Asn	Thr	Lys	Ile	Ser	Leu	Cys	Gln	Arg	Phe
				85					90

<210> 325
 <211> 60
 <212> PRT
 <213> homo sapiens

<400> 325

Thr	Arg	Ser	Leu	Leu	Tyr	Phe	His	Met	Phe	Leu	Ile	Leu	Trp	Glu	Glu
1				5					10					15	

Val	Gly	Ile	Pro	Phe	Thr	Asn	Val	Gly	Phe	Cys	Ser	Ile	Ile	Cys	Lys
			20					25					30		

Val	His	Leu	Phe	His	Ile	Ile	Ala	Glu	Ile	Lys	Asp	Val	Gln	Gly	Pro
		35					40					45			

Cys	Arg	Ala	Phe	His	Pro	Cys	His	Thr	Leu	Ile	Arg
	50					55					60

<210> 326
 <211> 42
 <212> PRT
 <213> homo sapiens

<400> 326

Ile	Arg	Asn	Glu	Lys	Lys	Gly	Cys	Val	Leu	Ser	Val	Gly	Glu	Met	Glu
1				5					10					15	

Leu	Val	Leu	Val	Val	Leu	Glu	Gln	Asp	Arg	His	Leu	Val	Leu	Met	Leu
			20					25					30		

Trp	Ser	Phe	Val	Ile	Val	Glu	His	Arg	Gly
		35					40		

<210> 327
 <211> 50
 <212> PRT
 <213> homo sapiens

<400> 327

Ala	Thr	Cys	Ser	Asp	Asn	Arg	Ser	Lys	Ile	Phe	Gln	Leu	Phe	Asn	Leu
1				5					10					15	

Glu	Cys	Tyr	Val	Leu	Leu	Glu	Pro	Ala	Ile	Cys	Met	Tyr	Arg	Ile	Asn
			20					25					30		

Asn	Phe	Tyr	Ser	Phe	Gly	Gln	Val	Ile	Leu	Arg	Gln	Ser	Gln	Trp	Ile
		35					40					45			

Gln Lys

50

<210> 328
 <211> 48
 <212> PRT
 <213> homo sapiens

<400> 328

Pro	Lys	Gly	Val	Val	Val	Asn	Pro	Gly	Ala	Leu	Leu	Ser	Gln	Arg	Thr
1				5					10					15	
Thr	Ala	Ser	Glu	Leu	Ser	Ala	Cys	Pro	Ala	Pro	Thr	Leu	Pro	Gly	Pro
			20					25					30		
Val	Pro	Ser	His	Leu	Leu	Ile	Arg	His	Ser	Leu	Ser	Ser	His	Ser	Leu
		35					40					45			

<210> 329
 <211> 100
 <212> PRT
 <213> homo sapiens

<400> 329

Ile	Ser	Glu	Val	Ala	Val	Asn	Phe	Ser	Val	Leu	Leu	Leu	Ala	Ser	Val
1				5					10					15	
Cys	Leu	Pro	Ile	Asp	Thr	His	Tyr	Thr	Asn	Val	Pro	Ser	Lys	Cys	Ser
			20					25					30		
Leu	His	Ile	Cys	Phe	His	Cys	Val	Pro	Thr	Gly	Ala	Met	Lys	Cys	Val
		35					40					45			
Arg	Ser	Pro	Ser	Ser	Gly	Gly	Met	Ser	Ala	Ala	Leu	Thr	Thr	Ala	Ile
	50					55					60				
Arg	Ile	Val	Leu	Cys	Gly	Ile	Phe	Ile	Tyr	Ile	Asn	Phe	Ile	Cys	Thr
65					70					75					80
Val	Ile	Ser	Leu	Phe	Ile	Cys	Gln	Val	Thr	Ile	Cys	Lys	Ser	Tyr	Thr
				85					90					95	
His	Lys	Leu	Leu												
			100												

<210> 330
 <211> 122
 <212> PRT
 <213> homo sapiens

<400> 330

Glu	Ala	Gln	Lys	Trp	Asp	Cys	Ile	Trp	Thr	Lys	Asn	Tyr	Lys	Lys	Val
1				5					10					15	
Gln	Ser	Leu	Val	Ser	Arg	Met	Gln	Ala	Leu	Ala	Leu	Gly	Asp	Gly	Ser
			20					25					30		

Ser	Leu	Glu 35	Asn	Ala	Ala	Ala	Asp 40	Ser	Leu	Phe	Gln	Arg 45	Arg	Ser	Phe	
Glu	Arg 50	Arg	Val	Cys	Tyr	Ile 55	Ser	Phe	Phe	Thr	Val 60	Thr	Leu	Trp	Arg	
Leu 65	Lys	Asp	Leu	Val	Val 70	Ser	Cys	Phe	Leu	Lys 75	Ile	Thr	Gly	Ile	Trp 80	
Arg	Pro	Val	Lys	Pro 85	Phe	Trp	Thr	Asp	Ile 90	Ser	Ser	Lys	Tyr	Phe 95	Phe	
Ile	Lys	Val	Phe 100	Glu	Gly	Asp	Asp	Phe 105	Leu	Asp	Leu	Trp	Leu 110	Asp	Ile	
Leu	Gly	Phe 115	Pro	Asp	Tyr	Ile	Val 120	Leu	Ser							

<210> 331
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 <212> PRT
 <213> homo sapiens

<400> 331

Glu 1	Asn	Trp	Ala	Ser 5	Arg	Tyr	Phe	Gln	Ser 10	Ser	Phe	Thr	Glu	Gln 15	Lys	
Val	Trp	Val	Gly 20	His	Trp	Leu	Glu	Gly 25	Asp	Ser	Pro	Thr	Leu 30	Thr	Val	
Thr	Ile	Trp 35	Ala	Ala	Thr	Gly	Gly 40	Ile	Val	Gln	Leu	Ala 45	Ser	Arg	Cys	
Ile	Pro 50	His	Leu	Lys	Tyr	Cys 55	Trp	Ile	Lys	Ala	Ile 60	Tyr	Thr	Leu	Ala	
Lys 65	Ser	Lys	Ala	Lys	Glu 70	Ile	Ala	Leu	Asp	Pro 75	Glu	Ser	Gln	Gln	Asp 80	
His	Leu	Ile	Phe	Pro 85	Asn	Gln	His	Leu	Gly 90	Gln	Gln	Leu	Pro	Ser 95	Thr	
Phe	Leu	Phe	His 100	Ser	Trp	Phe	Phe	Phe 105	Phe	Phe	Phe	Leu	Gln 110	Asp	Leu	
Ala	Val	Thr 115	Gln	Asp	Gly	Val	Gln 120	Trp	His	Asp	His					

<210> 332
 <211> 82
 <212> PRT

<213> homo sapiens

<400> 332

Leu 1	Asn	Val	Asp	Leu 5	Leu	Ile	Thr	Arg	Arg 10	Leu	Cys	Glu	Lys	Ile 15	Tyr
Val	Tyr	Ile	Tyr 20	Met	Ile	Cys	Arg	Ser 25	His	Phe	Phe	Tyr	Gln 30	Ala	Leu
Phe	Ser	Leu 35	Gln	Ser	His	Ser	Leu 40	Thr	Val	Cys	Asn	Ser 45	Trp	Phe	Met
Leu	Met 50	Ile	Asp	Lys	Tyr	Pro 55	Val	Phe	Val	Thr	Phe 60	Ser	Asn	Tyr	His
Cys 65	Asn	Asp	Asn	Leu	Ser 70	His	Val	Tyr	Thr	Cys 75	Asn	Phe	Leu	Ala	Ser 80

Phe Pro

<210> 333

<211> 82

<212> PRT

<213> homo sapiens

<400> 333

Arg 1	Leu	Val	Lys	Tyr 5	Lys	Asn	Ser	Leu	Asn 10	Arg	Glu	Lys	Ala	Ser 15	Gln
Val	Phe	Pro	Leu 20	Lys	Val	Lys	Tyr	Gly 25	Thr	Phe	His	Phe	Asn 30	Lys	Val
Asn	Asp	Phe 35	Lys	Asn	Leu	Thr	Phe 40	Phe	Arg	Arg	Lys	Lys 45	Lys	Thr	Ser
Tyr	Glu 50	Pro	Ser	Leu	Val	Asn 55	His	Leu	Val	Tyr	Lys 60	Ile	Phe	Pro	Leu
Phe 65	Lys	Lys	Cys	Phe	Cys 70	Lys	Ile	Leu	Arg	Ser 75	His	Glu	Ile	Met	Pro 80

Trp Ser

<210> 334

<211> 75

<212> PRT

<213> homo sapiens

<400> 334

Lys 1	Leu	Glu	Tyr	Ile 5	Met	Ser	Thr	Ala	Asn 10	Cys	Ser	Phe	Cys	Leu 15	Ile
Leu	Thr	Asp	Tyr 20	Ala	Phe	Pro	Gln	Arg 25	Ser	Ser	Arg	Ser	His 30	Ile	Tyr

Arg	His	Ile 35	Tyr	Gly	Ser	Gly	Leu 40	Lys	Glu	Lys	Thr	Ile 45	Leu	Ser	Ser
-----	-----	-----------	-----	-----	-----	-----	-----------	-----	-----	-----	-----	-----------	-----	-----	-----

Ile	Met 50	Ile	Tyr	His	Cys	Ala 55	Ile	Asn	Gln	Lys	Asn 60	Gln	Val	Arg	Asn
-----	-----------	-----	-----	-----	-----	-----------	-----	-----	-----	-----	-----------	-----	-----	-----	-----

Thr 65	Ile	Lys	Thr	Thr	Leu 70	Lys	Gly	Lys	Asn	Phe 75
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<210> 335

<211> 72

<212> PRT

<213> homo sapiens

<400> 335

Asn 1	Glu	Tyr	Cys	Ser 5	Trp	Ser	Thr	Cys	Ile 10	Lys	Gln	Lys	Thr	Cys 15	Gln
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Leu	Leu	Gly	Ala 20	Asn	Thr	Gln	Asn	Leu 25	Val	Pro	Val	Phe	Phe 30	Phe	Phe
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Leu	Thr	Thr 35	Ile	Val	Tyr	Thr	Phe 40	Leu	Lys	Ile	Lys	Phe 45	Val	Thr	Lys
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Ser	Pro 50	Met	Ser	Phe	Thr	Cys 55	Ile	Tyr	Asp	His	Gln 60	Met	Val	Ile	Arg
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Ala 65	Thr	Tyr	Val	Asn	Ala 70	Cys	Leu
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<210> 336

<211> 93

<212> PRT

<213> homo sapiens

<400> 336

Thr 1	His	Asn	Thr	Ser 5	Thr	Ile	Thr	Ala	Tyr 10	Arg	Lys	Leu	Gln	Ser 15	Thr
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Leu	Gln	Ala	Ser 20	Lys	Val	His	Ser	Val 25	Ala	Gln	Ser	Pro	Trp 30	Arg	Gly
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Arg	Asp	Leu 35	Lys	Val	Leu	Met	Ser 40	Ser	Tyr	Phe	Thr	Cys 45	Phe	Leu	Leu
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Ser	Thr 50	Gln	Cys	Lys	Met	Asn 55	Phe	Leu	His	Ser	Leu 60	Tyr	Phe	Arg	Leu
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Lys 65	Ile	Asp	Ser	Phe	Leu 70	Val	Leu	Thr	Leu	Thr 75	Leu	Glu	Gly	Thr	Val 80
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Val	Pro	Gly	Lys	Arg	Ser	Arg	Phe	Thr	Val	Pro	Asn	His
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85

136

90

<210> 337
 <211> 99
 <212> PRT
 <213> homo sapiens

<400> 337

Leu 1	Gly	Pro	Arg	Gly 5	Glu	Ile	Glu	Val	Tyr 10	Leu	Ala	Lys	Ser	Leu 15	Ala
Glu	Lys	Leu	Tyr 20	Leu	Cys	Gln	Tyr	Pro 25	Val	Arg	Pro	Ala	Ser 30	Met	Thr
Tyr	Asp	Asp 35	Ile	Pro	His	Leu	Ser 40	Ala	Lys	Ile	Lys	Pro 45	Lys	Gln	Gln
Lys	Val 50	Glu	Leu	Glu	Met	Ala 55	Ile	Asp	Thr	Leu	Asn 60	Pro	Asn	Tyr	Cys
Arg 65	Ser	Lys	Gly	Glu	Gln 70	Ile	Ala	Leu	Asn	Val 75	Asp	Gly	Ala	Cys	Ala 80
Asp	Glu	Thr	Ser	Thr 85	Tyr	Ser	Ser	Lys	Leu 90	Met	Asp	Lys	Gln	Thr 95	Phe
Cys	Ser	Ser													

<210> 338
 <211> 56
 <212> PRT
 <213> homo sapiens

<400> 338

Gly 1	Lys	Ser	Arg	Arg 5	Ser	Ala	Cys	Pro	Ser 10	Ala	Ser	Arg	Asn	Thr 15	Cys
Trp	Ser	Arg	Arg 20	Arg	Arg	Pro	Arg	Pro 25	Arg	Ser	Ala	Gln	Ser 30	Ala	Pro
Leu	Cys	Cys 35	Gly	Asn	Ser	Trp	Gly 40	Ser	Gly	Cys	Arg	Trp 45	Pro	Ser	Gln
Ala	Leu 50	Pro	Ser	Ala	Ala	Trp 55	Ala								

<210> 339
 <211> 59
 <212> PRT
 <213> homo sapiens

<400> 339

Gly 1	Arg	Ala	Glu	Gly 5	Leu	Leu	Val	His	Gln 10	Leu	Arg	Gly	Ile	Arg 15	Ala
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Gly	Leu	Val	Gly 20	Ala	Gly	Pro	Val	His 25	Val	Gln	Arg	Asn	Leu 30	Leu	Pro
Phe	Ala	Ala 35	Ala	Ile	Val	Gly	Val 40	Gln	Gly	Val	Asp	Gly 45	His	Leu	Lys
Leu	Tyr 50	Leu	Leu	Leu	Leu	Gly 55	Leu	Asp	Leu	Gly					

<210> 340
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 <212> PRT
 <213> homo sapiens

<400> 340

Gln 1	Pro	Ser	Ser	Leu 5	Leu	His	His	Cys	Pro 10	Tyr	Pro	Tyr	Pro	Pro 15	Arg
His	Leu	Leu	Ala 20	Thr	Pro	Leu	Leu	Lys 25	Pro	Gln	Leu	Leu	Ala 30	Gly	Ser
Pro	Ala	His 35	Ala	Ser	Leu	Ile	Ser 40	Phe	Leu	Ala	Ser	Pro 45	Gln	Arg	Ala
Ser	Arg 50	Gln	His	Gly	Gly	Pro 55	Ser	Gln	Arg	Ala	Gly 60	Thr	Leu	Ser	Cys
Pro 65	Leu	Val	Glu	Leu	Gly 70	Gly	Ser	Ser	Gly	Gly 75	Arg	Gly	Leu	Cys	His 80
Gly	Ser	Ala	Asp	Pro 85	Thr	Asn	Arg	Ala	Ala 90	Glu	Pro	Gln	Glu	Arg 95	Gly
Glu	Pro	Ala	Ala 100	Gly	Asp	Arg	Arg	Pro 105	Leu	Pro	Glu	Trp	Gly 110	Arg	Val
Ser	Leu	Ala 115	Glu	Ser	Pro	Gly	Ala 120	Glu	Phe	Arg	Cys	Pro 125	Gly	Ser	Leu
Gly	Glu 130	Trp	Gly	Glu	Ile	Pro 135	Glu	Lys	Glu	Ser	Ser 140	Ala	His	Pro	Lys
Thr 145	Glu	Glu	Ala	Ala	Leu 150	Cys	Pro	Ala	Pro	Gly 155	Ser	His			

<210> 341
 <211> 260
 <212> PRT
 <213> homo sapiens

<400> 341

Asn 1	His	Ser	Cys	Trp 5	Gln	Gly	Pro	Gln	Leu 10	Met	Pro	Ala	Ser	Ser 15	Pro
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Phe	Leu	Leu	Ala 20	Pro	Lys	Gly	Pro	Pro 25	Gly	Asn	Met	Gly	Gly 30	Pro	Val
Arg	Glu	Pro 35	Ala	Leu	Ser	Val	Ala 40	Leu	Trp	Leu	Ser	Trp 45	Gly	Ala	Ala
Leu	Gly 50	Ala	Val	Ala	Cys	Ala 55	Met	Ala	Leu	Leu	Thr 60	Gln	Gln	Thr	Glu
Leu 65	Gln	Ser	Leu	Arg	Arg 70	Glu	Val	Ser	Arg	Leu 75	Gln	Gly	Thr	Gly	Gly 80
Pro	Ser	Gln	Asn	Gly 85	Glu	Gly	Tyr	Pro	Trp 90	Gln	Ser	Leu	Pro	Glu 95	Gln
Ser	Ser	Asp	Ala 100	Leu	Glu	Ala	Trp	Glu 105	Ser	Gly	Glu	Arg	Ser 110	Arg	Lys
Arg	Arg	Ala 115	Val	Leu	Thr	Gln	Lys 120	Gln	Lys	Lys	Gln	His 125	Ser	Val	Leu
His	Leu 130	Val	Pro	Ile	Asn	Ala 135	Thr	Ser	Lys	Asp	Asp 140	Ser	Asp	Val	Thr
Glu 145	Val	Met	Trp	Gln	Pro 150	Ala	Leu	Arg	Arg	Gly 155	Arg	Gly	Leu	Gln	Ala 160
Gln	Gly	Tyr	Gly	Val 165	Arg	Ile	Gln	Asp	Ala 170	Gly	Val	Tyr	Leu	Leu 175	Tyr
Ser	Gln	Val	Leu 180	Phe	Gln	Asp	Val	Thr 185	Phe	Thr	Met	Gly	Gln 190	Val	Val
Ser	Arg	Glu 195	Gly	Gln	Gly	Arg	Gln 200	Glu	Thr	Leu	Phe	Arg 205	Cys	Ile	Arg
Ser	Met 210	Pro	Ser	His	Pro	Asp 215	Arg	Ala	Tyr	Asn	Ser 220	Cys	Tyr	Ser	Ala
Gly 225	Val	Phe	His	Leu	His 230	Gln	Gly	Asp	Ile	Leu 235	Ser	Val	Ile	Ile	Pro 240
Arg	Ala	Arg	Ala	Lys 245	Leu	Asn	Leu	Ser	Pro 250	His	Gly	Thr	Phe	Leu 255	Gly
Phe	Val	Lys	Leu 260												

<211> 201
 <212> PRT
 <213> homo sapiens

<400> 342

Thr 1	Pro	Ala	Ser	Trp 5	Ile	Arg	Thr	Pro	Tyr 10	Pro	Trp	Ala	Cys	Arg 15	Pro	
Leu	Pro	Arg	Leu 20	Arg	Ala	Gly	Cys	His 25	Ile	Thr	Ser	Val	Thr 30	Ser	Glu	
Ser	Ser	Leu 35	Glu	Val	Ala	Leu	Met 40	Gly	Thr	Arg	Cys	Arg 45	Thr	Glu	Cys	
Cys	Phe 50	Phe	Cys	Phe	Trp	Val 55	Ser	Thr	Ala	Leu	Leu 60	Phe	Arg	Asp	Leu	
Ser 65	Pro	Leu	Ser	Gln	Ala 70	Ser	Arg	Ala	Ser	Glu 75	Leu	Cys	Ser	Gly	Arg 80	
Leu	Cys	Gln	Gly	Tyr 85	Pro	Ser	Pro	Phe	Trp 90	Glu	Gly	Pro	Pro	Val 95	Pro	
Cys	Ser	Arg	Leu 100	Thr	Ser	Leu	Leu	Arg 105	Leu	Cys	Ser	Ser	Val 110	Cys	Trp	
Val	Ser	Arg 115	Ala	Met	Ala	Gln	Ala 120	Thr	Ala	Pro	Arg	Ala 125	Ala	Pro	Gln	
Leu	Asn 130	Gln	Arg	Ala	Thr	Glu 135	Ser	Ala	Gly	Ser	Leu 140	Thr	Gly	Pro	Pro	
Met 145	Leu	Pro	Gly	Gly	Pro 150	Leu	Gly	Ala	Ser	Lys 155	Lys	Gly	Asp	Glu	Ala 160	
Gly	Met	Ser	Trp	Gly 165	Pro	Cys	Gln	Gln	Leu 170	Trp	Phe	Gln	Glu	Trp 175	Gly	
Ser	Lys	Glu	Val 180	Ala	Gly	Arg	Val	Arg 185	Val	Arg	Ala	Val	Val 190	Gln	Lys	
Gly	Arg	Arg 195	Leu	Leu	Arg	Lys	Glu 200	Lys								

<210> 343
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 <212> PRT
 <213> homo sapiens

<400> 343

Gly 1	Arg	Arg	Ser	Arg 5	Met	Glu	Ile	Pro	Val 10	Pro	Val	Gln	Pro	Ser 15	Trp	
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140

Leu	Arg	Arg	Ala 20	Ser	Ala	Pro	Leu	Pro 25	Gly	Leu	Ser	Ala	Pro 30	Gly	Arg
Leu	Phe	Asp 35	Gln	Arg	Phe	Gly	Glu 40	Gly	Leu	Leu	Glu	Ala 45	Glu	Leu	Ala
Ala	Leu 50	Cys	Pro	Thr	Thr	Leu 55	Ala	Pro	Tyr	Tyr	Leu 60	Arg	Ala	Pro	Ser
Val 65	Ala	Leu	Pro	Val	Ala 70	Gln	Val	Pro	Thr	Asp 75	Pro	Gly	His	Phe	Ser 80
Val	Leu	Leu	Asp	Val 85	Lys	His	Phe	Ser	Pro 90	Glu	Glu	Ile	Ala	Val 95	Lys
Val	Val	Gly	Glu 100	His	Val	Glu	Val	His 105	Ala	Arg	His	Glu	Glu 110	Arg	Pro
Asp	Glu	His 115	Gly	Phe	Val	Ala	Arg 120	Glu	Phe	His	Arg	Arg 125	Tyr	Arg	Leu
Pro	Pro 130	Gly	Val	Asp	Pro	Ala 135	Ala	Val	Thr	Ser	Ala 140	Leu	Ser	Pro	Glu
Gly 145	Val	Leu	Ser	Ile	Gln 150	Ala	Ala	Pro	Ala	Ser 155	Ala	Gln	Ala	Pro	Pro 160
Pro	Ala	Ala	Ala	Lys 165											

<210> 344

<211> 116

<212> PRT

<213> homo sapiens

<400> 344

Thr 1	Ala	Leu	Ala	Gln 5	Pro	Gln	Ala	Ser	Gln 10	Ala	Gln	Ser	Pro	His 15	Pro
Pro	Asn	Val	Leu 20	Asp	Cys	Thr	Asp	Leu 25	Pro	Leu	Gln	Thr	Ile 30	Gln	Ala
Trp	Phe	Pro 35	Arg	Pro	Asp	Pro	Ser 40	Pro	Ala	Thr	Arg	Gln 45	Ser	Thr	Thr
Ala	Pro 50	Ser	Ser	Pro	Phe	Ser 55	Ala	Val	Lys	Pro	Gln 60	Pro	Ala	Thr	Pro
Asp 65	Ser	Gly	Thr	Leu	Phe 70	Arg	Leu	Pro	Gln	Leu 75	Leu	Asp	Thr	Arg	Pro 80

Thr Arg Thr Pro Asn Thr Lys Leu Tyr Arg Leu Ser His Pro Asn Leu
85 90 95

Pro Arg Leu Cys Thr Asp Val Leu Gly Pro Leu Pro Asn Ser Asn Gln
100 105 110

Thr Pro Ser Pro
115

<210> 345
<211> 111
<212> PRT
<213> homo sapiens

<400> 345

Asp Ile Arg Ala Glu Ser Gly Glu Val Gly Val Gly Glu Ser Val Gln
1 5 10 15

Phe Gly Val Gly Cys Ser Ser Trp Pro Gly Val Gln Glu Leu Gly Gln
20 25 30

Ser Lys Lys Gly Ser Arg Val Trp Cys Gly Trp Leu Gly Phe His Gly
35 40 45

Arg Lys Trp Ala Gly Gly Gly Ser Cys Arg Leu Ser Gly Cys Arg Gly
50 55 60

Arg Ile Gly Ser Trp Glu Pro Gly Leu Asp Gly Leu Glu Trp Glu Val
65 70 75 80

Cys Ala Val Gln Asp Val Trp Gly Val Gly Gly Leu Cys Leu Thr Gly
85 90 95

Leu Gly Leu Gly Gln Gly Cys Leu His His Asn Leu Val Ser Lys
100 105 110

<210> 346
<211> 53
<212> PRT
<213> homo sapiens

<400> 346

Arg Thr Glu Glu Glu Lys Lys Lys Lys Glu Lys Asn Gln Gln Pro Gln
1 5 10 15

Leu Pro Thr Pro Lys Cys Trp Ser Phe Tyr Val Lys Gly Arg Ile Pro
20 25 30

Gly Tyr Gly His Gly Val Tyr Lys Tyr Val Gly Arg Phe Ser Ala Asn
35 40 45

Ser Phe Pro Thr Val
50

Gly 65	Met	Arg	Lys	Arg	Gly 70	Gly	¹⁴⁴ Glu	Glu	Gly	Arg 75	Arg	Ala	Gly	Leu	Trp 80
Met	His	Asn	Ser	Arg 85	Ala	Arg	Gly	Leu	Gly 90	Arg	Lys	Ile	Pro	Gln 95	Arg
Pro	Ala	Ala	Cys 100	Val	Ala	Leu	Ala	Arg 105	His	Val	Val	Phe	Gly 110	Gly	Arg
Leu	Pro	Ile 115	His	Pro	Val	Glu	Ile 120	Leu	Val	Ala	Gly	Leu 125	Leu	Gly	Gly
Val	Lys 130	Pro	Val	Ser	Asp	Arg 135	Gln	Ala	Gly	Lys	Gly 140	Leu	Gly	Asp	Gly
Gly 145	Cys	Gly	Arg	Glu	Arg 150	Val									

<210> 351
 <211> 108
 <212> PRT
 <213> homo sapiens

<400> 351

Thr 1	Leu	Thr	Ala	His 5	Glu	Gly	Arg	Gly	Gly 10	Lys	Cys	Thr	Glu	Glu 15	Gly
Asp	Ala	Ser	Gln 20	Gln	Glu	Gly	Cys	Thr 25	Leu	Gly	Ser	Asp	Pro 30	Ile	Cys
Leu	Ser	Glu 35	Ser	Gln	Val	Ser	Glu 40	Glu	Gln	Glu	Glu	Met 45	Gly	Gly	Gln
Ser	Ser 50	Ala	Ala	Gln	Ala	Thr 55	Ala	Ser	Val	Asn	Ala 60	Glu	Glu	Ile	Lys
Val 65	Ala	Arg	Ile	His	Glu 70	Cys	Gln	Trp	Val	Val 75	Glu	Asp	Ala	Pro	Asn 80
Pro	Asp	Val	Leu	Leu 85	Ser	His	Lys	Asp	Asp 90	Val	Lys	Glu	Gly	Glu 95	Gly
Gly	Gln	Glu	Ser 100	Phe	Pro	Glu	Leu	Pro 105	Ser	Glu	Glu				

<210> 352
 <211> 77
 <212> PRT
 <213> homo sapiens

<400> 352

Lys 1	Phe	Phe	Gly	Asn 5	Ser	Leu	His	Ala	Thr 10	Pro	Lys	Cys	Thr	Pro 15	Ile
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Thr Leu Trp Leu 20 Phe Ser Glu Lys Asp 25 Phe Ser Gln Ile Val 30 Pro Phe

Thr Pro Leu 35 Arg Ala Ala Leu Gly 40 Asn Ser Pro Asp His 45 Leu Leu Pro

Pro Ser 50 Arg His Leu Cys Val 55 Thr Ala Gly His Pro 60 Gly Leu Glu His

Pro 65 Pro Pro Pro Thr Asp 70 Thr His Glu Tyr Gly 75 Leu Pro

<210> 353

<211> 122

<212> PRT

<213> homo sapiens

<400> 353

Thr Tyr Ser Ile His 5 Leu His Ser Gln Thr 10 Lys Leu Lys Ser Leu 15 Lys

Val His Lys Lys 20 Ile Ala Gln Leu Lys 25 Ser Ala Glu Tyr Thr 30 Gln Asn

Cys His Pro 35 Thr Val Phe Ser Val 40 Phe Pro Ala Ile Leu 45 Phe Pro Pro

Gln Thr 50 Ser Ser Ala Pro Ser 55 His Pro Lys Tyr Ala 60 Ile Val Phe Val

Ile Leu Ile Lys Ile Leu 70 Lys Gln Lys Phe Ile 75 Val Glu Gln Phe Met 80

Ser Thr Lys Val Cys 85 Leu Ser Cys Ser Cys 90 Pro Val Cys Ile Ser 95 Ser

Gly Phe Ile Ile 100 Gln Ile Lys Lys Ile 105 Leu Lys Asn Phe Leu 110 Val Thr

Ala Cys Met 115 Gln Pro Leu Ser Val 120 Pro Leu

<210> 354

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Pro Val Cys Glu Pro 5 Leu Ser Cys Gly Ser 10 Pro Pro Ser Val Ala Asn 15

Ala Val Ala Thr 20 Gly Glu Ala His Thr 25 Tyr Glu Ser Glu Val 30 Lys Leu

Arg	Cys	Leu 35	Glu	Gly	Tyr	Thr	Met 40	Asp	Thr	Asp	Thr	Asp 45	Thr	Phe	Thr
Cys	Gln 50	Lys	Asp	Gly	Arg	Trp 55	Phe	Pro	Glu	Arg	Ile 60	Ser	Cys	Ser	Pro
Lys 65	Lys	Cys	Pro	Leu	Pro 70	Glu	Asn	Ile	Thr	His 75	Ile	Leu	Val	His	Gly 80
Asp	Asp	Phe	Ser	Val 85	Asn	Arg	Gln	Val	Ser 90	Val	Ser	Cys	Ala	Glu 95	Gly
Tyr	Thr	Phe	Glu 100	Gly	Val	Asn	Ile	Ser 105	Val	Cys	Gln	Leu	Asp 110	Gly	Thr
Trp	Glu	Pro 115	Pro	Phe	Ser	Asp	Glu 120	Ser	Cys	Ser	Pro	Val 125	Ser	Cys	Gly
Lys	Pro 130	Glu	Ser	Pro	Glu	His 135	Gly	Phe	Val	Val	Gly 140	Ser	Lys	Tyr	Thr
Phe 145	Glu	Ser	Thr	Ile	Ile 150	Tyr	Gln	Cys	Glu	Pro 155	Gly	Tyr	Glu	Leu	Glu 160
Gly	Asn	Arg	Glu	Arg 165	Val	Cys	Gln	Glu	Asn 170	Arg	Gln	Trp	Ser	Gly 175	Gly
Val	Ala	Ile	Cys 180	Lys	Glu	Thr	Arg	Cys 185	Glu	Thr	Pro	Leu	Glu 190	Phe	Leu
Asn	Gly	Lys 195	Ala	Asp	Ile	Glu	Asn 200	Arg	Thr	Thr	Gly	Pro 205	Asn	Val	Val
Tyr	Ser 210	Cys	Asn	Arg	Gly	Tyr 215	Ser	Leu	Glu	Gly	Pro 220	Ser	Glu	Ala	His
Cys 225	Thr	Glu	Asn	Gly	Thr 230	Trp	Ser	His	Pro	Val 235	Pro	Leu	Cys	Lys	Pro 240
Asn	Pro	Cys	Pro	Val 245	Pro	Phe	Val	Ile	Pro 250	Glu	Asn	Ala	Leu	Leu 255	Ser
Glu	Lys	Glu	Phe 260	Tyr	Val	Asp	Gln	Asn 265	Val	Ser	Ile	Lys	Cys 270	Arg	Glu
Gly	Phe	Leu 275	Leu	Gln	Gly	His	Gly 280	Ile	Ile	Thr	Cys	Asn 285	Pro	Asp	Glu

Thr	Trp 290	Thr	Gln	Thr	Ser	Ala 295	Lys	Cys	Glu	Lys	Ile 300	Ser	Cys	Gly	Pro
Pro 305	Ala	His	Val	Glu	Asn 310	Ala	Ile	Ala	Arg	Gly 315	Val	His	Tyr	Gln	Tyr 320
Gly	Asp	Met	Ile	Thr 325	Tyr	Ser	Cys	Tyr	Ser 330	Gly	Tyr	Met	Leu	Glu 335	Gly
Phe	Leu	Arg	Ser 340	Val	Cys	Leu	Glu	Asn 345	Gly	Thr	Trp	Thr	Ser 350	Pro	Pro
Ile	Cys	Arg 355	Ala	Val	Cys	Arg	Phe 360	Pro	Cys	Gln	Asn	Gly 365	Gly	Ile	Cys
Gln	Arg 370	Pro	Asn	Ala	Cys	Ser 375	Cys	Pro	Glu	Gly	Trp 380	Met	Gly	Arg	Leu
Cys 385	Glu	Glu	Pro	Ile	Cys 390	Ile	Leu	Pro	Cys	Leu 395	Asn	Gly	Gly	Arg	Cys 400
Val	Ala	Pro	Tyr	Gln 405	Cys	Asp	Cys	Pro	Pro 410	Gly	Trp	Thr	Gly	Ser 415	Arg
Cys	His	Thr	Ala 420	Val	Cys	Gln	Ser	Pro 425	Cys	Leu	Asn	Gly	Gly 430	Lys	Cys
Val	Arg	Pro 435	Asn	Arg	Cys	His	Cys 440	Leu	Ser	Ser	Trp	Thr 445	Gly	His	Asn
Cys	Ser 450	Arg	Lys	Arg	Arg	Thr 455	Gly	Phe							
<210>	355														
<211>	210														
<212>	PRT														
<213>	homo sapiens														
<400>	355														
Gly 1	Val	Arg	Ala	Ala 5	Ser	Lys	Glu	Ile	Glu 10	Glu	Leu	Arg	Arg	Ala 15	His
Arg	Glu	Gly	Thr 20	Ser	Arg	Ala	Val	Thr 25	Gly	Glu	Gly	Pro	Ala 30	Ala	Gly
Arg	Met	Thr 35	Val	Pro	Lys	Gln	Thr 40	Gln	Thr	Pro	Asp	Leu 45	Leu	Pro	Glu
Ala	Leu 50	Glu	Ala	Gln	Val	Leu 55	Pro	Arg	Phe	Gln	Pro 60	Arg	Val	Leu	Gln

Val 65	Gln	Ala	Gln	Val	Gln 70	Ser	Gln	Thr	Gln	Pro 75	Arg	Ile	Pro	Ser	Thr 80
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Asp	Thr	Gln	Val	Gln 85	Pro	Lys	Leu	Gln	Lys 90	Gln	Ala	Gln	Thr	Gln 95	Thr
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Ser	Pro	Glu	His 100	Leu	Val	Leu	Gln	Gln 105	Lys	Gln	Val	Gln	Pro 110	Gln	Leu
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Gln	Gln	Glu 115	Ala	Glu	Pro	Gln	Lys 120	Gln	Val	Gln	Pro	Gln 125	Val	Gln	Pro
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Gln	Ala 130	His	Ser	Gln	Gly	Pro 135	Arg	Gln	Val	Gln	Leu 140	Gln	Gln	Glu	Ala
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Glu 145	Pro	Leu	Lys	Gln	Val 150	Gln	Pro	Gln	Val	Gln 155	Pro	Gln	Ala	His	Phe 160
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Thr	Ala	Pro	Arg	Ala 165	Gly	Ala	Ala	Ala	Ala 170	Glu	Glu	Ala	Gly	Pro 175	Asp
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Thr	Asp	Phe	Ser 180	Thr	Gly	Ala	His	Thr 185	Gly	His	Ser	Gln	Ala 190	Ser	Arg
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His	Arg	Glu 195	Leu	Leu	Pro	Gly	Ala 200	Val	Phe	Ser	Phe	Arg 205	Pro	Pro	Gly
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Ala	Gly 210
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<210> 356
 <211> 292
 <212> PRT
 <213> homo sapiens

<400> 356

Gly 1	Arg	Ala	Gly	Arg 5	Arg	Ala	Thr	Met	Phe 10	Ser	Gln	Gln	Gln	Gln 15	Gln
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Gln	Leu	Gln	Gln 20	Gln	Gln	Gln	Gln	Leu 25	Gln	Gln	Leu	Gln	Gln 30	Gln	Gln
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Leu	Gln	Gln 35	Gln	Gln	Leu	Gln	Gln 40	Gln	Gln	Leu	Leu	Gln 45	Leu	Gln	Gln
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Leu	Leu 50	Gln	Gln	Ser	Pro	Pro 55	Gln	Ala	Arg	Cys	His 60	Gly	Val	Ser	Gly
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Gly 65	Pro	Pro	Gln	Gln	Pro 70	Gln	Gln	Pro	Leu	Leu 75	Asn	Leu	Gln	Gly	Thr 80
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Asn	Ser	Ala	Ser	Leu 85	Leu	Asn	Gly	Ser	Met 90	Arg	Gln	Arg	Ala	Leu 95	Leu	
Leu	Gln	Gln	Leu 100	Gln	Gly	Leu	Asp	Gln 105	Phe	Ala	Met	Pro	Pro 110	Ala	Thr	
Tyr	Asp	Thr 115	Ala	Gly	Leu	Thr	Met 120	Pro	Thr	Ala	Thr	Leu 125	Gly	Asn	Leu	
Arg	Gly 130	Tyr	Gly	Met	Ala	Ser 135	Pro	Gly	Leu	Ala	Ala 140	Pro	Ser	Leu	Thr	
Pro 145	Pro	Gln	Leu	Ala	Thr 150	Pro	Asn	Leu	Gln	Gln 155	Phe	Phe	Pro	Gln	Ala 160	
Thr	Arg	Gln	Ser	Leu 165	Leu	Gly	Pro	Pro	Pro 170	Val	Gly	Val	Pro	Met 175	Asn	
Pro	Ser	Gln	Phe 180	Asn	Leu	Ser	Gly	Arg 185	Asn	Pro	Gln	Lys	Gln 190	Ala	Arg	
Thr	Ser	Ser 195	Ser	Thr	Thr	Pro	Asn 200	Arg	Lys	Asp	Ser	Ser 205	Ser	Gln	Thr	
Met	Pro 210	Val	Glu	Asp	Lys	Ser 215	Asp	Pro	Pro	Glu	Gly 220	Ser	Glu	Glu	Ala	
Ala 225	Glu	Pro	Arg	Met	Asp 230	Thr	Pro	Glu	Asp	Gln 235	Asp	Leu	Pro	Pro	Cys 240	
Pro	Glu	Asp	Ile	Ala 245	Lys	Glu	Lys	Arg	Thr 250	Pro	Ala	Pro	Glu	Pro 255	Glu	
Pro	Cys	Glu	Ala 260	Ser	Glu	Leu	Pro	Ala 265	Lys	Arg	Leu	Arg	Ser 270	Ser	Glu	
Glu	Pro	Thr 275	Glu	Lys	Glu	Pro	Pro 280	Gly	Gln	Leu	Gln	Val 285	Lys	Ala	Gln	
Pro	Gln 290	Ala	Gly													

<210> 357

<211> 169

<212> PRT

<213> homo sapiens

<400> 357

Pro 1	Arg	Arg	Leu	Pro 5	Ser	Val	Ala	Val	Gly 10	Met	Val	Arg	Pro	Ala 15	Val	
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150

Ser	Tyr	Val	Ala 20	Gly	Gly	Ile	Ala	Asn 25	Trp	Ser	Ser	Pro	Cys 30	Asn	Cys	
Cys	Lys	Ser 35	Lys	Ala	Leu	Cys	Arg 40	Met	Glu	Pro	Leu	Arg 45	Arg	Glu	Ala	
Glu	Leu 50	Val	Pro	Trp	Arg	Phe 55	Arg	Ser	Gly	Cys	Cys 60	Gly	Cys	Cys	Gly	
Gly 65	Pro	Pro	Leu	Thr	Pro 70	Trp	Gln	Arg	Ala	Cys 75	Gly	Gly	Asp	Cys	Trp 80	
Ser	Ser	Cys	Trp	Ser 85	Cys	Ser	Asn	Cys	Cys 90	Cys	Cys	Asn	Cys	Cys 95	Cys	
Trp	Ser	Cys	Cys 100	Cys	Cys	Asn	Cys	Trp 105	Ser	Cys	Cys	Cys	Cys 110	Cys	Trp	
Ser	Cys	Cys 115	Cys	Cys	Cys	Trp	Leu 120	Asn	Met	Val	Ala	Arg 125	Leu	Pro	Ala	
Arg	Pro 130	Gln	Arg	Ser	Ser	Arg 135	Pro	His	Gly	Trp	Ala 140	Gly	Pro	Ala	Ala	
Pro 145	Thr	Pro	Arg	Pro	Gly 150	Gly	Ser	Gly	Pro	Arg 155	Ala	Pro	Gly	Leu	Pro 160	
Ala	Ala	Thr	Pro	Gly 165	Pro	Val	Gly	Ser								

<210> 358

<211> 158

<212> PRT

<213> homo sapiens

<400> 358

Ile 1	Ser	Lys	Thr	Lys 5	Lys	Tyr	Cys	Gly	Ser 10	Pro	Ser	Ser	Arg	Ile 15	Arg	
Leu	Glu	Gly	Gly 20	His	Leu	Glu	Met	Arg 25	Lys	Ala	Arg	Gly	Gly 30	Asp	His	
Val	Pro	Val 35	Ser	His	Glu	Gln	Pro 40	Arg	Gly	Gly	Glu	Asp 45	Ala	Ala	Ala	
Gln	Glu 50	Pro	Arg	Gln	Arg	Pro 55	Glu	Pro	Glu	Leu	Gly 60	Leu	Lys	Arg	Ala	
Val 65	Pro	Gly	Gly	Gln	Arg 70	Pro	Asp	Asn	Ala	Lys 75	Pro	Asn	Arg	Asp	Leu 80	

151

Lys	Leu	Gln	Ala	Gly 85	Ser	Asp	Leu	Arg	Arg 90	Arg	Arg	Arg	Asp	Leu 95	Gly
Pro	His	Ala	Glu 100	Gly	Gln	Leu	Ala	Pro 105	Arg	Asp	Gly	Val	Ile 110	Ile	Gly
Leu	Asn	Pro 115	Leu	Pro	Asp	Val	Gln 120	Val	Asn	Asp	Leu	Arg 125	Gly	Ala	Leu
Asp	Ala 130	Gln	Leu	Arg	Gln	Ala 135	Ala	Gly	Gly	Ala	Leu 140	Gln	Val	Val	His
Ser 145	Arg	Gln	Leu	Arg	Gln 150	Ala	Pro	Gly	Pro	Pro 155	Glu	Glu	Ser		

<210> 359
 <211> 119
 <212> PRT
 <213> homo sapiens

<400> 359

Gln 1	Ser	Leu	Arg	Thr 5	Leu	Asn	Leu	Lys	Asn 10	Lys	Lys	Val	Leu	Trp 15	Ile
Ser	Leu	Glu	Pro 20	Asn	Ser	Ala	Arg	Gly 25	Arg	Ser	Pro	Gly	Asp 30	Glu	Lys
Gly	Pro	Arg 35	Gly	Gly	Pro	Cys	Ala 40	Cys	Val	Pro	Arg	Ala 45	Ala	Glu	Arg
Arg	Gly 50	Gly	Arg	Cys	Cys	Pro 55	Gly	Ala	Gln	Ala	Glu 60	Ala	Arg	Ala	Arg
Ala 65	Gly	Ala	Gln	Thr	Ser 70	Cys	Pro	Gly	Gly	Pro 75	Glu	Ala	Gly	Gln	Cys 80
Gln	Ala	Gln	Pro	Gly 85	Pro	Glu	Thr	Ala	Gly 90	Trp	Leu	Arg	Pro	Pro 95	Glu
Ala	Thr	Ala	Gly 100	Pro	Trp	Pro	Ser	Cys 105	Arg	Gly	Ser	Ala	Gly 110	Pro	Glu
Gly	Trp	Gly 115	His	His	Trp	Pro									

<210> 360
 <211> 187
 <212> PRT
 <213> homo sapiens

<400> 360

Pro	Pro	Glu	Phe	Gly	Trp	Asp	Ala	Ala	Glu	Thr	Asp	Leu	Leu	Leu	Ala
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1				5			152		10					15	
Glu	Glu	Gly	Ser 20	Gly	Trp	Arg	Gly	Pro 25	His	Gly	Gln	Gln	Val 30	Leu	Gly
Leu	Leu	Trp 35	Arg	Pro	Arg	Arg	Leu 40	Ser	Lys	Leu	Pro	Ala 45	Val	Asp	His
Leu	Gln 50	Ser	Ser	Pro	Arg	Ser 55	Leu	Ala	Glu	Leu	Gly 60	Ile	Gln	Gly	Ala
Thr 65	Glu	Val	Val	His	Leu 70	Asp	Ile	Arg	Gln	Gly 75	Val	Lys	Ala	Asn	Asp 80
Asp	Pro	Ile	Pro	Arg 85	Gly	Gln	Leu	Thr	Leu 90	Cys	Met	Arg	Ala	Lys 95	Val
Pro	Pro	Ser	Pro 100	Pro	Glu	Val	Gly	Ala 105	Ser	Leu	Gln	Phe	Gln 110	Val	Pro
Val	Gly	Leu 115	Gly	Ile	Val	Arg	Pro 120	Leu	Ala	Pro	Arg	Asp 125	Ser	Ser	Phe
Glu	Pro 130	Gln	Leu	Trp	Leu	Trp 135	Pro	Leu	Pro	Gly	Leu 140	Leu	Gly	Ser	Ser
Val 145	Leu	Pro	Ala	Ser	Arg 150	Leu	Leu	Val	Gly	His 155	Arg	His	Met	Val	Pro 160
Pro	Ala	Gly	Leu	Ser 165	His	Leu	Gln	Val	Thr 170	Ala	Leu	Glu	Pro	Asn 175	Ser
Ala	Arg	Gly	Arg 180	Ser	Thr	Val	Leu	Phe 185	Cys	Phe					

<210> 361
 <211> 86
 <212> PRT
 <213> homo sapiens

<400> 361

Ser 1	Thr	Ile	Ile	Leu 5	Gly	Lys	Ser	Arg	Ile 10	Glu	Phe	Phe	Ser	Arg 15	Cys
Pro	Thr	Arg	Val 20	Gly	Gln	Gly	Pro	Gln 25	Ser	Arg	Leu	Ile	Asn 30	Ser	His
Arg	Ile	Gln 35	Thr	Pro	Gly	Lys	Ile 40	Ala	Leu	Arg	Ser	Gln 45	Leu	Leu	Ser
Ser	Leu 50	Tyr	Gly	Ser	Arg	Lys 55	Asn	Ser	Thr	Lys	Met 60	Thr	Gly	His	Pro

Met	Ser	Val	Met	Pro	Met	Lys	Pro	His	Leu	Leu	Glu	Lys	Pro	Leu	Asn
65					70					75					80

Gln	Asn	Tyr	Leu	Phe	Ser
				85	

<210> 362
 <211> 83
 <212> PRT
 <213> homo sapiens

<400> 362

Ile	Thr	Lys	Ala	Ile	Val	Phe	Ser	Phe	Val	Phe	Ser	Ser	Gly	Tyr	Thr
1				5					10					15	

Val	Glu	Val	Arg	Glu	Ser	Leu	Ile	Leu	Leu	Phe	Gly	Ala	Ile	Ile	Lys
			20					25					30		

Ala	Met	Gln	Gln	Pro	Lys	Ile	Lys	His	Phe	Gly	Ser	Ser	Gln	Asp	Asp
		35					40					45			

Met	Ser	Gly	Asp	Arg	Ser	Cys	Gly	Ser	His	Ser	Asn	Asn	Leu	Met	Gly
	50					55					60				

Pro	Glu	Glu	Lys	Thr	Gly	Val	Asn	Val	Leu	Ser	Phe	Tyr	Tyr	Met	Gln
65					70					75					80

Glu	Leu	Cys
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<210> 363
 <211> 117
 <212> PRT
 <213> homo sapiens

<400> 363

Tyr	Lys	Asn	Asp	Arg	Ser	Ser	Tyr	Glu	Arg	His	Ala	Asn	Glu	Thr	Pro
1				5					10					15	

Ser	Ser	Gly	Glu	Ala	Leu	Glu	Ser	Glu	Leu	Ser	Phe	Phe	Leu	Met	Ser
			20					25					30		

Ser	Asp	Ala	Ala	Ser	Phe	Leu	Ile	Phe	Leu	Lys	Thr	Val	Cys	Phe	Cys
		35					40					45			

Gly	Met	Tyr	Ile	Cys	Thr	Pro	Asn	Tyr	Leu	Ala	Leu	Gly	Asn	His	Ser
	50					55					60				

Thr	Thr	Gln	Arg	Gln	Leu	Asn	Lys	Glu	Lys	Phe	Asn	Phe	Lys	Tyr	Gln
65					70					75					80

Val	Leu	Ser	Asn	Ile	Ser	Gln	Thr	Ser	Asp	Phe	Ile	Lys	Gly	Leu	Pro
				85					90					95	

Ala	Asn	Lys	Val	His	Pro	Lys	Tyr	Thr	Gly	Glu	Lys	Ala	Arg	Leu	Leu
			100					105					110		

Gln	Gly	Pro	Arg	Val
		115		

<210> 364
 <211> 83
 <212> PRT
 <213> homo sapiens

<400> 364

Ser	Cys	Arg	Cys	Phe	Tyr	Cys	Met	Pro	Asp	Met	Pro	Leu	Thr	Arg	Phe
1				5					10					15	
Trp	Arg	Thr	Pro	Asn	Ser	Pro	Arg	Met	Thr	Arg	Arg	His	Ser	His	Val
			20					25					30		
Ile	Cys	Ile	Phe	Ser	Tyr	Gln	Leu	Gln	Ile	Val	Ala	Leu	Leu	Arg	Leu
		35					40					45			
Pro	Pro	Val	Gln	Gln	Glu	Met	Glu	Arg	Lys	His	Phe	Ser	Phe	Leu	His
	50					55					60				
Thr	Thr	Pro	Leu	Asp	Asn	Trp	Lys	Tyr	Phe	Trp	Val	Ile	Thr	Ile	Leu
65					70					75					80

Gly	Tyr	Phe
-----	-----	-----

<210> 365
 <211> 144
 <212> PRT
 <213> homo sapiens

<400> 365

Gln	Tyr	Gly	Pro	Ser	Arg	Val	Glu	Val	Glu	Met	Ser	Tyr	Arg	Ile	Ala
1				5					10					15	
Asn	Thr	Leu	Gly	Ser	Phe	Leu	Pro	Arg	Leu	Ala	Gln	Ser	Arg	Gln	Gln
			20					25					30		
Gln	Gln	Asn	Val	Glu	Asp	Ala	Met	Lys	Glu	Met	Gln	Lys	Pro	Leu	Ala
		35					40					45			
Arg	Tyr	Ile	Asp	Asp	Glu	Asp	Leu	Asp	Arg	Met	Leu	Arg	Glu	Gln	Glu
	50					55					60				
Arg	Glu	Gly	Asp	Pro	Met	Ala	Asn	Phe	Ile	Lys	Lys	Asn	Lys	Ala	Lys
65					70					75					80
Glu	Asn	Lys	Asn	Lys	Lys	Val	Arg	Pro	Arg	Tyr	Ser	Gly	Pro	Ala	Pro
				85					90					95	

Pro	Pro	Asn	Arg	Phe	Asn	Ile	Trp	Pro	Gly	Tyr	Arg	Trp	Asp	Gly	Val
			100					105					110		
Asp	Arg	Ser	Asn	Gly	Phe	Glu	Gln	Lys	Arg	Phe	Ala	Arg	Leu	Ala	Ser
		115					120					125			
Lys	Lys	Ala	Val	Glu	Glu	Leu	Ala	Tyr	Lys	Trp	Ser	Val	Glu	Asp	Met
	130					135					140				

<210> 366
 <211> 116
 <212> PRT
 <213> homo sapiens

<400> 366

Lys	Pro	Thr	Lys	His	Arg	Cys	Cys	Gln	His	Pro	Lys	Lys	Tyr	Arg	Tyr
1				5					10					15	
Leu	Asn	Pro	Asn	Ile	Arg	Ser	Arg	Ile	Phe	Phe	Cys	Gly	Gln	Asn	Trp
			20					25					30		
His	Ser	Thr	Ser	Cys	Trp	Ser	Val	Trp	Ala	Pro	Ile	Ile	Ser	Thr	Asp
		35					40					45			
Asn	Cys	Tyr	His	Trp	Ile	Ser	Arg	Cys	Leu	Cys	Pro	Leu	Pro	Gln	Pro
	50					55					60				
Ser	His	Pro	His	Ser	Leu	Arg	Lys	Val	Thr	Tyr	Pro	Gln	His	Ser	Ile
65					70					75					80
Cys	Arg	Gln	Val	Pro	Pro	Leu	Pro	Ser	Cys	Trp	Gln	Ala	Trp	Gln	Ser
				85					90					95	
Ala	Ser	Val	Gln	Ile	His	Trp	Ile	Cys	Pro	Leu	Arg	Pro	Ser	Asp	Ile
			100					105					110		
Gln	Ala	Arg	Tyr												
		115													

<210> 367
 <211> 160
 <212> PRT
 <213> homo sapiens

<400> 367

Ser	Ser	Glu	Asn	Pro	Pro	Asn	Thr	Ala	Ala	Val	Asn	Thr	Pro	Arg	Ser
1				5					10					15	
Thr	Gly	Thr	Ser	Ile	Gln	Thr	Ser	Gly	Leu	Glu	Tyr	Ser	Ser	Val	Val
			20					25					30		

Lys	Thr	Gly 35	Ile	Gln	Gln	Val	Ala 40	¹⁵⁶ Gly	Leu	Cys	Gly	Leu 45	Gln	Leu	Leu
Ala	Gln 50	Thr	Thr	Val	Thr	Thr 55	Gly	Tyr	Leu	Ala	Ala 60	Tyr	Ala	His	Tyr
His 65	Ser	Pro	Ala	Thr	Pro 70	Thr	Ala	Ser	Gly	Lys 75	Leu	His	Ile	Leu	Asn 80
Thr	Pro	Phe	Val	Gly 85	Lys	Phe	Leu	His	Cys 90	Leu	Leu	Ala	Gly	Lys 95	Pro
Gly	Lys	Ala	Leu 100	Leu	Phe	Lys	Ser	Ile 105	Gly	Ser	Val	His	Ser 110	Val	Pro
Ala	Ile	Ser 115	Arg	Pro	Asp	Ile	Lys 120	Ser	Val	Gly	Arg	Arg 125	Cys	Trp	Thr
Thr	Val 130	Ala	Arg	Ser	His	Phe 135	Phe	Ile	Leu	Val	Leu 140	Leu	Gly	Leu	Ile
Leu 145	Leu	Asp	Glu	Val	Gly 150	His	Arg	Val	Pro	Leu 155	Ser	Phe	Leu	Phe	Ser 160

<210> 368
 <211> 227
 <212> PRT
 <213> homo sapiens

<400> 368

Trp 1	Glu	Ser	Met	Asn 5	Arg	Trp	Tyr	Val	Lys 10	Pro	Leu	Glu	Thr	Ser 15	Ser
Ser	Lys	Val	Lys 20	Ala	Lys	Thr	Ile	Val 25	Met	Ile	Pro	Asp	Ser 30	Gln	Lys
Leu	Leu	Arg 35	Cys	Glu	Leu	Glu	Ser 40	Leu	Lys	Ser	Gln	Leu 45	Gln	Ala	Gln
Thr	Lys 50	Ala	Phe	Glu	Phe	Leu 55	Asn	His	Ser	Val	Thr 60	Met	Leu	Glu	Lys
Glu 65	Ser	Cys	Leu	Gln	Gln 70	Ile	Lys	Ile	Gln	Gln 75	Leu	Glu	Glu	Val	Leu 80
Ser	Pro	Thr	Gly	Arg 85	Gln	Gly	Glu	Lys	Glu 90	Glu	His	Lys	Trp	Gly 95	Met
Glu	Gln	Gly	Arg 100	Gln	Glu	Leu	Tyr	Gly 105	Ala	Leu	Thr	Gln	Gly 110	Leu	Gln

Gly	Leu	Glu 115	Lys	Thr	Leu	Arg	Asp 120	Ser	Glu	Glu	Met	Gln 125	Arg	Ala	Arg
Thr	Thr 130	Arg	Cys	Leu	Gln	Leu 135	Leu	Ala	Gln	Glu	Ile 140	Arg	Asp	Ser	Lys
Lys 145	Phe	Leu	Trp	Glu	Glu 150	Leu	Glu	Leu	Val	Arg 155	Glu	Glu	Val	Thr	Phe 160
Ile	Tyr	Gln	Lys	Leu 165	Gln	Ala	Gln	Glu	Asp 170	Glu	Ile	Ser	Glu	Asn 175	Leu
Val	Asn	Ile	Gln 180	Lys	Met	Gln	Lys	Thr 185	Gln	Val	Lys	Cys	Arg 190	Lys	Ile
Leu	Thr	Lys 195	Met	Lys	Gln	Gln	Gly 200	His	Glu	Thr	Ala	Ala 205	Cys	Pro	Glu
Thr	Glu 210	Glu	Ile	Pro	Gln	Glu 215	Pro	Val	Ala	Ala	Gly 220	Arg	Met	Thr	Ser
Arg 225	Arg	Asn													

<210> 369

<211> 155

<212> PRT

<213> homo sapiens

<400> 369

Phe 1	Ile	Phe	Ser	Leu 5	Glu	Gly	Ser	Ser	Gly 10	Arg	Ala	Val	Pro	Ala 15	Ala
Gln	Ala	Gly	Gly 20	Lys	Gly	Gly	Ala	Leu 25	Leu	Leu	Lys	Gly	Gly 30	Trp	Glu
Arg	Ser	Trp 35	Ser	Glu	Ser	Glu	Ser 40	Glu	Ser	Gln	Glu	Gly 45	Ser	Gly	Gly
Leu	Arg 50	His	Trp	Cys	Pro	Leu 55	Trp	Pro	Leu	Arg	Leu 60	Glu	Ala	Leu	Gly
Gln 65	Ala	Pro	Glu	His	Lys 70	Val	Arg	Leu	Ser	Met 75	Glu	Phe	Cys	Ser	Thr 80
Cys	Thr	Ala	Asp	His 85	Ile	Ser	Leu	Ser	Ser 90	Phe	Trp	Arg	Ser	Ser 95	Phe
Gln	Gln	Pro	Leu 100	Ala	Pro	Ala	Val	Ser 105	Leu	Gln	Ser	Pro	Asp 110	Arg	Arg

Leu	Ser	His 115	Asp	Pro	Ala	Ala	Ser 120	Ser	Trp	Ser	Gly	Phe 125	Cys	Gly	Ile
Ser	Pro 130	Ala	Phe	Ser	Ala	Phe 135	Ser	Glu	Cys	Ser	Pro 140	Ser	Ser	Leu	Arg
Ser 145	His	Pro	Pro	Ala	Leu 150	Gly	Ala	Ser	Asp	Arg 155					

<210> 370
 <211> 114
 <212> PRT
 <213> homo sapiens

<400> 370

Asp 1	Leu	Ile	Leu	Leu 5	Arg	Leu	Glu	Leu	Leu 10	Ile	Asp	Glu	Gly	His 15	Leu
Leu	Pro	His	Gln 20	Phe	Gln	Leu	Leu	Pro 25	Gln	Glu	Leu	Leu	Ala 30	Val	Pro
Asp	Leu	Leu 35	Gly	Gln	Gln	Leu	Gln 40	Ala	Ala	Ser	Gly	Ala 45	Gly	Pro	Leu
His 50	Leu	Leu	Thr	Val	Thr	Gln 55	Gly	Leu	Leu	Gln	Pro 60	Leu	Lys	Ala	Leu
Gly 65	Gln	Gly	Pro	Ile	Gln 70	Leu	Leu	Pro	Ala	Leu 75	Leu	His	Ala	Pro	Leu 80
Val	Leu	Leu	Leu	Leu 85	Ser	Leu	Ala	Ala	Cys 90	Gly	Ala	Gln	His	Leu 95	Phe
Lys	Leu	Leu	Asn 100	Leu	Asp	Leu	Leu	Gln 105	Ala	Ala	Leu	Leu	Leu 110	Gln	His

Gly His

<210> 371
 <211> 201
 <212> PRT
 <213> homo sapiens

<400> 371

Thr 1	Ala	Ser	Thr	Leu 5	Arg	Ala	Val	Phe	Pro 10	Arg	Pro	Ala	Ser	Glu 15	Ser
Pro	Pro	Leu	Arg 20	Ala	Arg	Ser	Asp	Ala 25	Glu	Asp	Leu	Thr	Ala 30	Ala	Met
Ser	Ser	Asn 35	Glu	Cys	Phe	Lys	Cys 40	Gly	Arg	Ser	Gly	His 45	Trp	Ala	Arg

Glu	Cys 50	Pro	Thr	Gly	Gly	Gly 55	Arg	Gly	Arg	Gly	Met 60	Arg	Ser	Arg	Gly
Arg 65	Gly	Phe	Gln	Phe	Val 70	Ser	Ser	Ser	Leu	Pro 75	Asp	Ile	Cys	Tyr	Arg 80
Cys	Gly	Glu	Ser	Gly 85	His	Leu	Ala	Lys	Asp 90	Cys	Asp	Leu	Gln	Glu 95	Asp
Ala	Cys	Tyr	Asn 100	Cys	Gly	Arg	Gly	Gly 105	His	Ile	Ala	Lys	Asp 110	Cys	Lys
Glu	Pro	Lys 115	Arg	Glu	Arg	Glu	Gln 120	Cys	Cys	Tyr	Asn	Cys 125	Gly	Lys	Pro
Gly	His 130	Leu	Ala	Arg	Asp	Cys 135	Asp	His	Ala	Asp	Glu 140	Gln	Lys	Cys	Tyr
Ser 145	Cys	Gly	Glu	Phe	Gly 150	His	Ile	Gln	Lys	Asp 155	Cys	Thr	Lys	Val	Lys 160
Cys	Tyr	Arg	Cys	Gly 165	Glu	Thr	Gly	His	Val 170	Ala	Ile	Asn	Cys	Ser 175	Lys
Thr	Ser	Glu	Val 180	Asn	Cys	Tyr	Arg	Cys 185	Gly	Glu	Ser	Gly	His 190	Leu	Ala
Arg	Glu	Cys 195	Thr	Ile	Glu	Ala	Thr 200	Ala							

<210> 372
 <211> 189
 <212> PRT
 <213> homo sapiens

<400> 372

Leu 1	Ala	Thr	Ala	Val 5	Thr	Val	Asp	Phe	Thr 10	Cys	Leu	Ala	Ala	Val 15	Asp
Gly	Tyr	Met	Thr 20	Ser	Phe	Thr	Thr	Pro 25	Ile	Ala	Leu	His	Phe 30	Gly	Ala
Val	Phe	Leu 35	Asn	Val	Ser	Glu	Phe 40	Ser	Thr	Arg	Ile	Ala 45	Phe	Leu	Leu
Ile	Cys 50	Met	Val	Ala	Val	Thr 55	Ser	Gln	Met	Ala	Trp 60	Phe	Ala	Thr	Val
Val 65	Ala	Ala	Leu	Leu	Ser 70	Leu	Ser	Leu	Gly	Leu 75	Leu	Ala	Val	Leu	Gly 80

Asn	Val	Ala	Thr	Ser 85	Thr	Ala	Val	Ile	Ala 90	Gly	Ile	Leu	Leu	Lys 95	Ile
Thr	Ile	Leu	Gly 100	Lys	Met	Thr	Arg	Leu 105	Thr	Thr	Ala	Ile	Thr 110	Asn	Ile
Trp	Lys	Arg 115	Arg	Gly	Asn	Lys	Leu 120	Glu	Thr	Ser	Ala	Thr 125	Ala	Ser	His
Ser	Thr 130	Thr	Thr	Ala	Ser	Thr 135	Ser	Arg	Thr	Phe	Pro 140	Gly	Pro	Val	Ala
Arg 145	Ser	Ser	Thr	Leu	Glu 150	Ala	Leu	Ile	Ala	Ala 155	His	Gly	Cys	Ser	Gln 160
Ile	Phe	Arg	Val	Gly 165	Ala	Gly	Pro	Gln	Arg 170	Arg	Arg	Leu	Gly	Arg 175	Arg
Pro	Gly	Glu	Asp 180	Gly	Ser	Gln	Gly	Arg 185	Gly	Cys	Leu	Phe			

<210> 373
 <211> 316
 <212> PRT
 <213> homo sapiens

<400> 373

Gly 1	Gly	Asp	Pro	Val 5	Val	Ser	Ser	Ser	Tyr 10	Arg	Ser	Val	Gly	Cys 15	Ser
Glu	Gln	Gln	Lys 20	Pro	Ala	Ser	Ser	Asp 25	Val	Val	Leu	Pro	Ala 30	Thr	Met
Ser	Tyr	Thr 35	Gly	Phe	Val	Gln	Gly 40	Ser	Glu	Thr	Thr	Leu 45	Gln	Ser	Thr
Tyr	Ser 50	Asp	Thr	Ser	Ala	Gln 55	Pro	Thr	Cys	Asp	Tyr 60	Gly	Tyr	Gly	Thr
Trp 65	Asn	Ser	Gly	Thr	Asn 70	Arg	Gly	Tyr	Glu	Gly 75	Tyr	Gly	Tyr	Gly	Tyr 80
Gly	Tyr	Gly	Gln	Asp 85	Asn	Thr	Thr	Asn	Tyr 90	Gly	Tyr	Gly	Met	Ala 95	Thr
Ser	His	Ser	Trp 100	Glu	Met	Pro	Ser	Ser 105	Asp	Thr	Asn	Ala	Asn 110	Thr	Ser
Ala	Ser	Gly 115	Ser	Ala	Ser	Ala	Asp 120	Ser	Val	Leu	Ser	Arg 125	Ile	Asn	Gln

Arg	Leu 130	Asp	Met	Val	Pro	His 135	Leu	Glu	Thr	Asp	Met 140	Met	Gln	Gly	Gly
Val 145	Tyr	Gly	Ser	Gly	Gly 150	Glu	Arg	Tyr	Asp	Ser 155	Tyr	Glu	Ser	Cys	Asp 160
Ser	Arg	Ala	Val	Leu 165	Ser	Glu	Arg	Asp	Leu 170	Tyr	Arg	Ser	Gly	Tyr 175	Asp
Tyr	Ser	Glu	Leu 180	Asp	Pro	Glu	Met	Glu 185	Met	Ala	Tyr	Glu	Gly 190	Gln	Tyr
Asp	Ala	Tyr 195	Arg	Asp	Gln	Phe	Arg 200	Met	Arg	Gly	Asn	Asp 205	Thr	Phe	Gly
Pro	Arg 210	Ala	Gln	Gly	Trp	Ala 215	Arg	Asp	Ala	Arg	Ser 220	Gly	Arg	Pro	Met
Ala 225	Ala	Gly	Tyr	Gly	Arg 230	Met	Trp	Glu	Asp	Pro 235	Met	Gly	Ala	Arg	Gly 240
Gln	Cys	Met	Ser	Gly 245	Ala	Ser	Arg	Leu	Ala 250	Leu	Pro	Leu	Leu	Pro 255	Glu
His	His	Pro	Arg 260	Val	Arg	His	Val	Pro 265	Gly	Ala	Cys	Glu	Val 270	Gly	Ala
Pro	Ser	Arg 275	Ala	Ala	Ser	Arg	Phe 280	Gly	Phe	Arg	Val	Trp 285	Gln	Trp	His
Glu	Ala 290	Asp	Glu	Gly	Gly	Leu 295	Gly	Arg	Arg	Gly	Pro 300	Gln	Pro	Ile	Cys
Glu 305	Pro	Arg	Arg	Arg	Arg 310	Glu	Ser	Arg	Ala	Ala 315	Phe				

<210> 374

<211> 200

<212> PRT

<213> homo sapiens

<400> 374

Ile 1	Pro	Ala	Ala	Leu 5	Leu	Thr	Gly	Ser	Ile 10	Arg	Met	Pro	Pro	Cys 15	Phe
Leu	Phe	Phe	Phe 20	Leu	Val	Arg	Lys	Ser 25	Ala	Val	Val	Pro	Val 30	Phe	Pro
Val	Arg	Pro 35	His	Leu	Leu	His	Ala 40	Ile	Ala	Lys	Pro	Glu 45	Asn	Gln	Asn

Gly	Lys 50	Pro	Pro	Gly	Lys	Ala 55	Pro	Gln	Pro	Arg	Met 60	Pro	Leu	Glu	His
Ala 65	Val	Leu	Gly	Asp	Asp 70	Val	Leu	Gly	Glu	Glu 75	Gly	Gly	Gln	Ala	Glu 80
Arg	His	Gln	Thr	Cys 85	Thr	Gly	Pro	Gly	Pro 90	Pro	Trp	Gly	Leu	Pro 95	Thr
Cys	Ala	His	Ser 100	Leu	Arg	Pro	Leu	Ala 105	Gly	Arg	Ser	Gly	His 110	Pro	Gly
Pro	Ser	Pro 115	Val	Pro	Trp	Asp	Arg 120	Arg	Cys	Arg	Cys	His 125	Ala	Cys	Gly
Thr	Gly 130	Arg	Gly	Arg	His	Arg 135	Ile	Gly	Pro	His	Arg 140	Pro	Phe	Pro	Ser
Gln 145	Gly	Gln	Ala	Arg	Cys 150	Ser	His	Ser	Leu	Thr 155	Gly	Thr	Gly	Arg	Ala 160
His	Ser	Gly	Arg	Pro 165	Ser	Ser	Arg	Arg	Thr 170	His	Lys	Ser	His	Thr 175	Phe
Leu	His	Leu	Ser 180	Arg	Thr	Arg	Leu	Leu 185	Ala	Ser	Cys	Leu	Ser 190	Pro	Asn
Ala	Ala	Pro 195	Tyr	Leu	Ser	Ala	Gly 200								

<210> 375

<211> 218

<212> PRT

<213> homo sapiens

<400> 375

Ser 1	Thr	Ser	His	Asp 5	Cys	Val	Pro	Gln	Ala 10	Asp	Ala	Ala	Ala	Tyr 15	Ser
Arg	Thr	Ala	Asp 20	Gly	Glu	Thr	Glu	Ala 25	Arg	Gly	Gly	Arg	Gly 30	Gly	Ala
Asp	Leu	Pro 35	Ala	Ser	Pro	Ser	Pro 40	Arg	Pro	Arg	Leu	Ala 45	Pro	Pro	Trp
Pro	Val 50	Arg	Ser	Thr	Arg	Gly 55	Ala	Arg	Arg	Arg	Arg 60	Thr	Ala	Arg	Gly
Gln 65	Ala	Gly	Ser	Ser	Ser 70	Ala	Met	Ala	Ala	Gln 75	Arg	Leu	Gly	Lys	Arg 80

Val	Leu	Ser	Lys	Leu 85	Gln	Ser	Pro	Ser	Arg 90	Ala	Arg	Gly	Pro	Gly 95	Gly	
Ser	Pro	Gly	Gly 100	Leu	Gln	Lys	Arg	His 105	Ala	Arg	Val	Thr	Val 110	Lys	Tyr	
Asp	Arg	Arg 115	Glu	Leu	Gln	Arg	Arg 120	Leu	Asp	Val	Glu	Lys 125	Trp	Ile	Asp	
Gly	Arg 130	Leu	Glu	Glu	Leu	Tyr 135	Arg	Gly	Met	Glu	Ala 140	Asp	Met	Pro	Asp	
Glu 145	Ile	Asn	Ile	Asp	Glu 150	Leu	Leu	Glu	Leu	Glu 155	Ser	Glu	Glu	Glu	Arg 160	
Ser	Arg	Lys	Ile	Gln 165	Gly	Leu	Leu	Lys	Ser 170	Cys	Gly	Lys	Pro	Val 175	Glu	
Asp	Phe	Ile	Gln 180	Glu	Leu	Leu	Ala	Lys 185	Leu	Gln	Gly	Leu	His 190	Arg	Gln	
Pro	Gly	Leu 195	Arg	Gln	Pro	Ser	Pro 200	Ser	His	Asp	Gly	Ser 205	Leu	Ser	Pro	
Leu	Gln 210	Asp	Arg	Ala	Arg	Thr 215	Ala	His	Pro							

<210> 376
 <211> 112
 <212> PRT
 <213> homo sapiens

<400> 376

Asn 1	Gln	Leu	Lys	Leu 5	Lys	Gln	Gln	Ala	Gly 10	Ser	Phe	Ser	Gln	Glu 15	Gly	
Cys	Lys	Gly	Glu 20	Asn	Ile	Leu	Ser	Phe 25	Leu	Leu	Gln	Gly	Asn 30	His	Cys	
Pro	Gly	Val 35	Pro	Ala	Ser	Gly	Arg 40	His	Asn	Leu	Ser	Lys 45	Val	Gln	Gly	
Met	Leu 50	Ala	Arg	Lys	Gly	Gly 55	Ile	Leu	Asp	Cys	Cys 60	Leu	Leu	Ser	Glu	
Pro 65	Ser	Pro	Thr	Pro	Gln 70	Pro	Ala	Ser	Trp	Cys 75	Leu	Phe	Ser	Ser	Lys 80	
Leu	Ser	Leu	Pro	Asn 85	Leu	Ser	Ser	Ser	Glu 90	Gly	Lys	Arg	Glu	Ser 95	Val	

Pro	Gly	Phe	Ser 100	Arg	Val	Gly	Glu	Arg 105	Thr	Gly	Lys	Gly	Thr 110	Asp	Ile
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<210> 377
 <211> 96
 <212> PRT
 <213> homo sapiens

<400> 377

Val 1	Arg	Pro	Glu	His 5	Ser	Leu	Met	Val	Leu 10	Ser	Leu	Asp	Thr	Pro 15	Thr
Ser	Tyr	Leu	Gln 20	Phe	Ser	Arg	Arg	Arg 25	Ala	Ser	Gly	Thr	Leu 30	Gly	Cys
Lys	Pro	Asn 35	Leu	Gly	Ser	Met	Phe 40	Ala	Leu	Asn	Pro	Asn 45	Ser	Gln	Arg
Arg	Ser 50	Glu	Cys	Ile	Phe	His 55	His	Ala	Ala	Ala	Gly 60	Cys	Trp	Pro	Arg
Phe 65	Cys	Val	Phe	Ser	Gln 70	Pro	Ser	Glu	Ile	Thr 75	Ser	Phe	Leu	Val	Ala 80
Val	Thr	Asn	Ser	Ser 85	Trp	Thr	Thr	Met	Lys 90	Leu	Ile	Tyr	Phe	Pro 95	Ile

<210> 378
 <211> 145
 <212> PRT
 <213> homo sapiens

<400> 378

Ser 1	Asn	Arg	Leu	Val 5	Ala	Ser	Pro	Lys	Lys 10	Asp	Ala	Arg	Val	Lys 15	Thr
Phe	Phe	Pro	Ser 20	Phe	Cys	Arg	Glu	Ile 25	Ile	Ala	Leu	Val	Cys 30	Gln	Pro
Val	Val	Gly 35	Thr	Thr	Phe	Gln	Lys 40	Phe	Lys	Gly	Cys	Trp 45	Leu	Glu	Lys
Glu	Val 50	Phe	Trp	Ile	Ala	Ala 55	Ser	Ser	Gln	Asn	Pro 60	Leu	Leu	Pro	His
Ser 65	Leu	Pro	Pro	Gly	Val 70	Phe	Phe	Pro	Pro	Asn 75	Ser	Leu	Tyr	Leu	Thr 80
Ser	Leu	His	Gln	Lys 85	Ala	Ser	Gly	Asn	Leu 90	Phe	Arg	Val	Ser	Val 95	Glu

Trp	Glu	Lys	Gly 100	Gln	Ala	Lys	Ala 165	Gln 105	Ile	Phe	Arg	Arg	Glu 110	Ser	Ser
-----	-----	-----	------------	-----	-----	-----	------------	------------	-----	-----	-----	-----	------------	-----	-----

Tyr	Phe	Trp 115	Pro	Leu	His	Val	Pro 120	Tyr	Ser	Gly	Ile	Val 125	Gly	Pro	Asp
-----	-----	------------	-----	-----	-----	-----	------------	-----	-----	-----	-----	------------	-----	-----	-----

Asp	Trp 130	His	Ser	Asp	Ser	Gln 135	Leu	Trp	Phe	Trp	Glu 140	Asn	Ile	Arg	Gly
-----	------------	-----	-----	-----	-----	------------	-----	-----	-----	-----	------------	-----	-----	-----	-----

Ser
145

<210> 379

<211> 429

<212> PRT

<213> homo sapiens

<400> 379

Arg 1	Gln	Phe	Glu	Ile 5	Thr	Ser	Ile	Ser	Val 10	Asp	Val	Trp	His	Ile 15	Leu
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Glu	Phe	Asp	Tyr 20	Ser	Arg	Leu	Pro	Lys 25	Gln	Ser	Ile	Gly	Gln 30	Phe	His
-----	-----	-----	-----------	-----	-----	-----	-----	-----------	-----	-----	-----	-----	-----------	-----	-----

Glu	Gly	Asp 35	Ala	Tyr	Val	Val	Lys 40	Trp	Lys	Phe	Met	Val 45	Ser	Thr	Ala
-----	-----	-----------	-----	-----	-----	-----	-----------	-----	-----	-----	-----	-----------	-----	-----	-----

Val	Gly 50	Ser	Arg	Gln	Lys	Gly 55	Glu	His	Ser	Val	Arg 60	Ala	Ala	Gly	Lys
-----	-----------	-----	-----	-----	-----	-----------	-----	-----	-----	-----	-----------	-----	-----	-----	-----

Glu 65	Lys	Cys	Val	Tyr	Phe 70	Phe	Trp	Gln	Gly	Arg 75	His	Ser	Thr	Val	Ser 80
-----------	-----	-----	-----	-----	-----------	-----	-----	-----	-----	-----------	-----	-----	-----	-----	-----------

Glu	Lys	Gly	Thr	Ser 85	Ala	Leu	Met	Thr	Val 90	Glu	Leu	Asp	Glu	Glu 95	Arg
-----	-----	-----	-----	-----------	-----	-----	-----	-----	-----------	-----	-----	-----	-----	-----------	-----

Gly	Ala	Gln	Val 100	Gln	Val	Leu	Gln	Gly 105	Lys	Glu	Pro	Pro	Cys 110	Phe	Leu
-----	-----	-----	------------	-----	-----	-----	-----	------------	-----	-----	-----	-----	------------	-----	-----

Gln	Cys	Phe 115	Gln	Gly	Gly	Met	Val 120	Val	His	Ser	Gly	Arg 125	Arg	Glu	Glu
-----	-----	------------	-----	-----	-----	-----	------------	-----	-----	-----	-----	------------	-----	-----	-----

Glu	Glu 130	Glu	Asn	Val	Gln	Ser 135	Glu	Trp	Arg	Leu	Tyr 140	Cys	Val	Arg	Gly
-----	------------	-----	-----	-----	-----	------------	-----	-----	-----	-----	------------	-----	-----	-----	-----

Glu 145	Val	Pro	Val	Glu	Gly 150	Asn	Leu	Leu	Glu	Val 155	Ala	Cys	His	Cys	Ser 160
------------	-----	-----	-----	-----	------------	-----	-----	-----	-----	------------	-----	-----	-----	-----	------------

Ser	Leu	Arg	Ser	Arg 165	Thr	Ser	Met	Val	Val 170	Leu	Asn	Val	Asn	Lys 175	Ala
-----	-----	-----	-----	------------	-----	-----	-----	-----	------------	-----	-----	-----	-----	------------	-----

Leu	Ile	Tyr	Leu 180	Trp	His	Gly	Cys 166	Lys 185	Ala	Gln	Ala	His	Thr 190	Lys	Glu
Val	Gly	Arg 195	Thr	Ala	Ala	Asn	Lys 200	Ile	Lys	Glu	Gln	Cys 205	Pro	Leu	Glu
Ala	Gly 210	Leu	His	Ser	Ser	Ser 215	Lys	Val	Thr	Ile	His 220	Glu	Cys	Asp	Glu
Gly 225	Ser	Glu	Pro	Leu	Gly 230	Phe	Trp	Asp	Ala	Leu 235	Gly	Arg	Arg	Asp	Arg 240
Lys	Ala	Tyr	Asp	Cys 245	Met	Leu	Gln	Asp	Pro 250	Gly	Ser	Phe	Asn	Phe 255	Ala
Pro	Arg	Leu	Phe 260	Ile	Leu	Ser	Ser	Ser 265	Ser	Gly	Asp	Phe	Ala 270	Ala	Thr
Glu	Phe	Val 275	Tyr	Pro	Ala	Arg	Ala 280	Pro	Ser	Val	Val	Ser 285	Ser	Met	Pro
Phe	Leu 290	Gln	Glu	Asp	Leu	Tyr 295	Ser	Ala	Pro	Gln	Pro 300	Ala	Leu	Phe	Leu
Val 305	Asp	Asn	His	His	Glu 310	Val	Tyr	Leu	Trp	Gln 315	Gly	Trp	Trp	Pro	Ile 320
Glu	Asn	Lys	Ile	Thr 325	Gly	Ser	Ala	Arg	Ile 330	Arg	Trp	Ala	Ser	Asp 335	Arg
Lys	Ser	Ala	Met 340	Glu	Thr	Val	Leu	Gln 345	Tyr	Cys	Lys	Gly	Lys 350	Asn	Leu
Lys	Lys	Pro 355	Ala	Pro	Lys	Ser	Tyr 360	Leu	Ile	His	Ala	Gly 365	Leu	Glu	Pro
Leu	Thr 370	Phe	Thr	Asn	Met	Phe 375	Pro	Ser	Trp	Glu	His 380	Arg	Glu	Asp	Ile
Ala 385	Glu	Ile	Thr	Glu	Met 390	Asp	Thr	Glu	Val	Ser 395	Asn	Gln	Ile	Thr	Leu 400
Val	Glu	Asp	Val	Leu 405	Ala	Lys	Leu	Cys	Lys 410	Thr	Ile	Tyr	Pro	Leu 415	Ala
Asp	Leu	Leu	Ala 420	Arg	Pro	Leu	Pro	Glu 425	Gly	Ser	Ile	Leu			

<210> 380

<211> 169

<212> PRT
 <213> homo sapiens

<400> 380

Asp 1	Val	Phe	His	Glu 5	Gly	Asp	Leu	Ile	Gly 10	Asn	Phe	Arg	Val	His 15	Leu
Cys	Asp	Leu	Ser 20	Asp	Val	Leu	Ser	Val 25	Leu	Pro	Ala	Gly	Lys 30	His	Ile
Gly	Glu	Cys 35	Gln	Gly	Leu	Gln	Thr 40	Ser	Val	Asp	Lys	Val 45	Arg	Leu	Gly
Gly	Trp 50	Phe	Leu	Glu	Ile	Phe 55	Ser	Phe	Ala	Val	Leu 60	Glu	His	Ser	Leu
His 65	Arg	Thr	Leu	Pro	Val 70	Gly	Gly	Pro	Ala	Asp 75	Ala	Gly	Gly	Thr	Ser 80
Asp	Leu	Val	Leu	Asp 85	Gly	Pro	Pro	Ala	Leu 90	Pro	Glu	Val	His	Leu 95	Val
Val	Ile	Val	Asn 100	Lys	Glu	Lys	Cys	Trp 105	Leu	Gly	Arg	Ala	Val 110	Gln	Ile
Phe	Leu	Gln 115	Glu	Gly	His	Gly	Thr 120	Asp	His	Arg	Gly	Gly 125	Ser	Gly	Arg
Val	His 130	Lys	Leu	Cys	Gly	Cys 135	Lys	Ile	Pro	Arg	Gly 140	Ala	Ala	Glu	Asp
Glu 145	Gln	Ala	Gly	Arg	Glu 150	Val	Lys	Thr	Ser	Arg 155	Ile	Leu	Lys	His	Ala 160
Ile	Val	Gly	Phe	Pro 165	Val	Ser	Pro	Ser							

<210> 381
 <211> 234
 <212> PRT
 <213> homo sapiens

<400> 381

Gly 1	Ile	Pro	Glu	Ser 5	Glu	Trp	Leu	Gly	Ala 10	Phe	Ile	Thr	Leu	Val 15	Tyr
Cys	Asp	Phe	Ala 20	Ala	Thr	Met	Gln	Ser 25	Cys	Phe	Gln	Gly	Thr 30	Leu	Phe
Leu	Asp	Leu 35	Val	Arg	Ser	Gly	Pro 40	Ser	Asp	Leu	Leu	Arg 45	Val	Gly	Leu

							168									
Gly	Phe	Ala	Ser	Val	Pro	Gln	Val	Asp	Glu	Gly	Leu	Val	Asp	Val	Lys	
	50					55					60					
His	His	His	Gly	Ser	Ser	Gly	Pro	Gln	Ala	Ala	Thr	Val	Thr	Gly	His	
65					70				75						80	
Phe	Gln	Gln	Ile	Pro	Phe	His	Gly	His	Leu	Ser	Thr	His	Ala	Val	Gln	
				85					90					95		
Pro	Pro	Leu	Thr	Leu	His	Ile	Phe	Phe	Phe	Leu	Phe	Pro	Pro	Pro	Arg	
			100					105					110			
Val	His	His	His	Pro	Pro	Leu	Glu	Thr	Leu	Gln	Glu	Thr	Gly	Gly	Leu	
		115					120					125				
Leu	Ser	Leu	Glu	Asn	Leu	Asp	Leu	Gly	Pro	Pro	Phe	Leu	Val	Gln	Leu	
	130					135					140					
His	Arg	His	Gln	Arg	Arg	Arg	Ala	Leu	Leu	Thr	His	Gly	Gly	Val	Pro	
145					150					155					160	
Ala	Leu	Pro	Glu	Glu	Val	Asp	Ala	Leu	Leu	Phe	Ala	Gly	Cys	Pro	His	
				165					170					175		
Arg	Val	Leu	Ser	Leu	Leu	Ala	Thr	Ser	His	Cys	Arg	Ala	His	His	Glu	
			180					185					190			
Leu	Pro	Leu	Asp	His	Ile	Gly	Ile	Pro	Leu	Met	Glu	Leu	Pro	Asp	Ala	
		195					200					205				
Leu	Phe	Gly	Glu	Pro	Ala	Ile	Val	Glu	Phe	Gln	Asp	Val	Pro	Asp	Ile	
	210					215					220					
His	Gly	Asn	Ala	Gly	Asp	Leu	Lys	Leu	Pro							
225					230											

<210> 382
 <211> 81
 <212> PRT
 <213> homo sapiens

<400> 382

Arg	Leu	Phe	Ala	Pro	Leu	Arg	Thr	Ser	Trp	Ala	Val	Val	Ile	Pro	Gly	
1				5					10					15		
Ala	Arg	Val	Ala	Leu	Cys	Phe	Tyr	Lys	Ile	Met	Thr	Tyr	Val	Thr	Cys	
			20					25					30			
Leu	His	Val	Cys	Leu	Leu	Val	Glu	Phe	Leu	Asn	Ser	Gln	Leu	Thr	Asn	
		35					40					45				

His Arg Lys Tyr Tyr Phe Leu ¹⁶⁹ Ser Tyr Gly Phe Trp Phe Thr Gly Leu
 50 55 60

Arg Gly Phe Ser Glu Tyr Leu Trp Pro Gln Gln His Thr Gln Phe Pro
 65 70 75 80

Ser

<210> 383
 <211> 61
 <212> PRT
 <213> homo sapiens

<400> 383

Ile Val Asn Arg Thr Thr Ala Cys Thr Leu Phe Glu Val Asn Leu Glu
 1 5 10 15

Trp Lys Ala Arg Asp Tyr Thr Leu Phe Lys Ile Asp Ile Cys Gly Ala
 20 25 30

His Thr Ile Tyr Glu Ile Val Pro Ser Lys Lys Glu Lys Lys Lys Ile
 35 40 45

Arg Arg Ser Asn Leu Glu Gln His Cys Leu Ile Lys Ala
 50 55 60

<210> 384
 <211> 56
 <212> PRT
 <213> homo sapiens

<400> 384

Pro Pro Asp Phe Phe Phe Leu Phe Phe Arg Gly Tyr Tyr Phe Ile Tyr
 1 5 10 15

Cys Val Ser Pro Thr Asn Val Tyr Phe Lys Lys Ser Ile Val Pro Gly
 20 25 30

Leu Pro Phe Gln Ile His Leu Lys Glu Ser Thr Cys Ser Ser Pro Val
 35 40 45

Tyr Asn Leu Ile Glu Met Arg Lys
 50 55

<210> 385
 <211> 139
 <212> PRT
 <213> homo sapiens

<400> 385

Leu Asp Ser Ser His Cys Cys Ser Cys Ser Thr Ala Leu Phe Arg Thr
 1 5 10 15

Gln Thr Thr Ala Ala Ala Val Pro Arg Met Val Ile Arg Val Tyr Ile
 20 25 30

Ala	Ser	Ser 35	Ser	Gly	Ser	Thr	Ala 40	Ile	Lys	Lys	Lys	Gln 45	Gln	Asp	Val
Leu	Gly 50	Phe	Leu	Glu	Ala	Asn 55	Lys	Ile	Gly	Phe	Glu 60	Glu	Lys	Asp	Ile
Ala 65	Ala	Asn	Glu	Glu	Asn 70	Arg	Lys	Trp	Met	Arg 75	Glu	Asn	Val	Pro	Glu 80
Asn	Ser	Arg	Pro	Ala 85	Thr	Gly	Tyr	Pro	Leu 90	Pro	Pro	Gln	Ile	Phe 95	Asn
Glu	Ser	Gln	Tyr 100	Arg	Gly	Asp	Tyr	Asp 105	Ala	Phe	Phe	Glu	Ala 110	Arg	Glu
Asn	Asn	Ala 115	Val	Tyr	Ala	Phe	Leu 120	Gly	Leu	Thr	Ala	Pro 125	Pro	Gly	Ser
Lys	Glu 130	Ala	Glu	Val	Gln	Ala 135	Lys	Gln	Gln	Ala					

<210> 386
 <211> 95
 <212> PRT
 <213> homo sapiens

<400> 386

Glu 1	Thr	Lys	His	Ile 5	Leu	Leu	Phe	Leu	Leu 10	Asn	Arg	Cys	Arg	Ala 15	Arg
Gly	Arg	Cys	Asn 20	Ile	Tyr	Thr	Asp	His 25	His	Pro	Gly	Asn	Ser 30	Gly	Cys
Gly	Cys	Leu 35	Gly	Pro	Glu	Lys	Gly 40	Cys	Gly	Ala	Ala	Ala 45	Ala	Met	Ala
Gly	Ile 50	Gln	Leu	Gly	Ala	Glu 55	Thr	Ala	Val	Gly	Arg 60	Glu	Gly	Trp	Gly
Lys 65	Val	Glu	Gly	Glu	Leu 70	Ala	Arg	Ala	Pro	Pro 75	Pro	Pro	Leu	Ala	Ala 80
Ser	Thr	Glu	Leu	Ser 85	Lys	Arg	Cys	Ser	Ser 90	Ser	Pro	Lys	Pro	Arg 95	

<210> 387
 <211> 96
 <212> PRT
 <213> homo sapiens

<400> 387

Phe	Cys	Ile	His	Phe	Glu	Cys	Leu	His	Val	Lys	Thr	Gln	Leu	Ile	Tyr
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1				5			171		10					15		
Tyr	Phe	Asn	Ile 20	Lys	Pro	Ile	Ser	Phe 25	Glu	Ala	Lys	Leu	Ile 30	Leu	Leu	
Phe	Tyr	Lys 35	Ser	Asn	Gly	Asp	Ser 40	Phe	Phe	Arg	Met	Leu 45	Lys	Ala	Gln	
Cys	Leu 50	Arg	Phe	Met	Leu	Ala 55	Ala	Leu	Leu	Ala	Leu 60	Leu	Leu	Pro	Leu	
Asn 65	Gln	Val	Gly	Leu	Ser 70	Ser	Leu	Arg	Arg	His 75	Thr	Leu	His	Tyr	Phe 80	
Leu	Trp	Leu	Gln	Arg 85	Arg	His	His	Ser	Pro 90	Arg	Asp	Thr	Gly	Phe 95	His	

<210> 388
 <211> 221
 <212> PRT
 <213> homo sapiens

<400> 388

Phe 1	Ile	Met	Leu	Asn 5	Ile	Ile	Leu	Ile	Lys 10	Phe	Ser	Ser	Phe	Ser 15	Ile	
Arg	Cys	Ala	Ile 20	Leu	Ser	Ser	Val	Cys 25	Leu	Asn	Glu	Ala	Ile 30	Thr	Phe	
Ala	Phe	Leu 35	Leu	Gln	Val	Phe	Leu 40	Trp	Asn	Met	Asp	Lys 45	Tyr	Thr	Met	
Ile	Arg 50	Lys	Leu	Glu	Gly	His 55	His	His	Asp	Val	Val 60	Ala	Cys	Asp	Phe	
Ser 65	Pro	Asp	Gly	Ala	Leu 70	Leu	Ala	Thr	Ala	Ser 75	Tyr	Asp	Thr	Arg	Val 80	
Tyr	Ile	Trp	Asp	Pro 85	His	Asn	Gly	Asp	Ile 90	Leu	Met	Glu	Phe	Gly 95	His	
Leu	Phe	Pro	Pro 100	Pro	Thr	Pro	Ile	Phe 105	Ala	Gly	Gly	Ala	Asn 110	Asp	Arg	
Trp	Val	Arg 115	Ser	Val	Ser	Phe	Ser 120	His	Asp	Gly	Leu	His 125	Val	Ala	Ser	
Leu	Ala 130	Asp	Asp	Lys	Met	Val 135	Arg	Phe	Trp	Arg	Ile 140	Asp	Glu	Asp	Tyr	
Pro	Val	Gln	Val	Ala	Pro	Leu	Ser	Asn	Gly	Leu	Cys	Cys	Ala	Phe	Ser	

145					150		172			155				160	
Thr	Asp	Gly	Ser	Val 165	Leu	Ala	Ala	Gly	Thr 170	His	Asp	Gly	Ser	Val 175	Tyr
Phe	Trp	Ala	Thr 180	Pro	Arg	Gln	Val	Pro 185	Ser	Leu	Gln	His	Leu 190	Cys	Arg
Met	Ser	Ile 195	Arg	Arg	Val	Met	Pro 200	Thr	Gln	Glu	Val	Gln 205	Glu	Leu	Pro
Ile	Pro 210	Ser	Lys	Leu	Leu	Glu 215	Phe	Leu	Ser	Tyr	Arg 220	Ile			

<210> 389
 <211> 118
 <212> PRT
 <213> homo sapiens

<400> 389

Lys 1	Gly	Gly	Ala	Thr 5	Cys	Pro	Glu	Ser	Pro 10	Gln	Asp	Arg	Lys	Arg 15	Arg
Gly	Asn	Leu	Asp 20	Met	Glu	Lys	Leu	Tyr 25	Ser	Glu	Asn	Glu	Gly 30	Met	Ala
Ser	Asn	Gln 35	Gly	Lys	Met	Glu	Asn 40	Glu	Glu	Gln	Pro	Gln 45	Asp	Glu	Arg
Lys	Pro 50	Glu	Val	Thr	Cys	Thr 55	Leu	Glu	Asp	Lys	Lys 60	Leu	Glu	Asn	Glu
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<400> 390

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173

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Lys 65	Leu	Leu	Leu	Ala	Phe 70	Ser	Arg	Leu	Val	Ala 75	Val	Leu	His	Phe	Pro 80
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<212> DNA

<213> homo sapiens

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<213> homo sapiens

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<212> DNA

<213> homo sapiens

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1774

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<211> 3982

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<213> homo sapiens

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<210> 403
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<400> 403

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<210> 404

<211> 271

<212> PRT

<213> homo sapiens

<400> 404

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Val	Asp	Glu 35	Val	Glu	Pro	Leu	Pro 40	Glu	Asp	Tyr	Tyr	Thr 45	Arg	Pro	Val
Asn	Leu 50	Thr	Glu	Val	Thr	Thr 55	Leu	Gln	Gln	Arg	Leu 60	Leu	Gln	Pro	Asp
Phe 65	Gln	Pro	Val	Cys	Ala 70	Ser	Gln	Leu	Tyr	Pro 75	Arg	His	Lys	His	Leu 80
Leu	Ile	Lys	Arg	Ser 85	Leu	Arg	Cys	Arg	Lys 90	Cys	Glu	His	Asn	Leu 95	Ser
Lys	Pro	Glu	Phe 100	Asn	Pro	Thr	Ser	Ile 105	Lys	Phe	Lys	Ile	Gln 110	Leu	Val
Ala	Val	Asn 115	Tyr	Ile	Pro	Glu	Val 120	Arg	Ile	Met	Ser	Ile 125	Pro	Asn	Leu
Arg	Tyr 130	Met	Lys	Glu	Ser	Gln 135	Val	Leu	Leu	Thr	Leu 140	Thr	Asn	Pro	Val
Glu 145	Asn	Leu	Thr	His	Val 150	Thr	Leu	Phe	Glu	Cys 155	Glu	Glu	Gly	Asp	Pro 160
Asp	Asp	Ile	Asn	Ser 165	Thr	Ala	Lys	Val	Val 170	Val	Pro	Pro	Lys	Glu 175	Leu
Val	Leu	Ala	Gly 180	Lys	Asp	Ala	Ala	Ala 185	Glu	Tyr	Asp	Glu	Leu 190	Ala	Glu

Pro	Gln	Asp 195	Phe	Gln	Asp	Asp	Pro 200	Asp	Ile	Ile	Ala	Phe 205	Arg	Lys	Ala
Asn	Lys 210	Val	Gly	Ile	Phe	Ile 215	Lys	Val	Thr	Pro	Gln 220	Arg	Glu	Glu	Gly
Glu 225	Val	Thr	Val	Cys	Phe 230	Lys	Met	Lys	His	Asp 235	Phe	Lys	Asn	Leu	Ala 240
Ala	Pro	Ile	Arg	Pro 245	Ile	Glu	Glu	Ser	Asp 250	Gln	Gly	Thr	Glu	Val 255	Ile
Trp	Leu	Thr	Gln 260	His	Val	Glu	Leu	Ser 265	Leu	Gly	Pro	Leu	Leu 270	Pro	

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<211> 133

<212> PRT

<213> homo sapiens

<400> 405

Asp 1	Leu	Lys	Gln	Asp 5	Gln	Gly	Lys	Gln	Lys 10	Ile	Cys	Ile	Phe	Leu 15	Lys
Ser	Leu	Gly	His 20	Leu	Leu	Thr	Ile	Leu 25	Leu	Gln	Lys	Thr	Arg 30	Cys	Ser
Trp	Trp	Ser 35	Thr	Leu	Ser	Ser	Phe 40	Ile	Leu	Glu	Asn	Ile 45	Ile	Glu	Ile
Lys	Val 50	Ser	Asn	Pro	Thr	Pro 55	Gly	Tyr	Gln	Val	Lys 60	Thr	Ala	Ser	Leu
Leu 65	Leu	Gly	Gln	Asn	Cys 70	Gly	Leu	Leu	Ala	Glu 75	Leu	Phe	Tyr	Gly	Leu 80
Gln	Ser	Lys	Trp	Ser 85	Tyr	Leu	Thr	His	His 90	Met	Thr	Lys	Val	Leu 95	Asn
Leu	Val	Arg	Gly 100	Lys	Val	Leu	Asn	Ile 105	Gln	Phe	Trp	Ile	Gln 110	Glu	Ile
Ile	Ile	Val 115	Asn	Phe	Pro	Phe	Lys 120	Ser	Met	Glu	Arg	Met 125	Leu	Val	Glu
Asn	Ile 130	Leu	Lys	Ile											

<210> 406

<211> 95

<212> PRT

<213> homo sapiens

<400> 406

Arg 1	Gly	Pro	Gly	His 5	Leu	Leu	Lys	Pro	Asn 10	Gly	Gly	Pro	Pro	Met 15	Lys
Leu	Gly	Tyr	Gly 20	Arg	Asn	Leu	Asp	Ile 25	Ser	Pro	Arg	Leu	Pro 30	Leu	Asn
Arg	Glu	Thr 35	Val	Lys	Arg	Ser	Ile 40	Arg	Phe	His	Arg	Phe 45	Trp	Pro	Leu
Ile	Pro 50	Asn	Ser	Phe	Pro	His 55	Asn	Ser	Val	Phe	Leu 60	Val	Ser	Met	Lys
Cys 65	Leu	Glu	Ser	His	Arg 70	Lys	Pro	Val	Lys	Ile 75	Phe	Leu	Lys	Lys	Lys 80
Lys	Pro	Gln	Lys	Thr 85	Asp	His	Leu	Ser	Ile 90	Gln	Trp	Thr	Ser	Ile 95	

<210> 407

<211> 55

<212> PRT

<213> homo sapiens

<400> 407

Tyr 1	Leu	Ser	Leu	Cys 5	Pro	Cys	Trp	Pro	Gly 10	Asn	Phe	Phe	Gln	Trp 15	Cys
Leu	Leu	Glu	Glu 20	Val	Phe	Ser	Ser	Cys 25	His	Phe	Lys	Lys	Ile 30	Lys	Leu
Glu	Ile	Glu 35	Tyr	Gly	Trp	His	Asp 40	Cys	Thr	Leu	Leu	Val 45	Leu	Leu	Phe
Phe	Tyr 50	Ser	Ser	Val	Pro	Leu 55									

<210> 408

<211> 127

<212> PRT

<213> homo sapiens

<400> 408

Leu 1	Gln	Glu	Ala	Pro 5	Cys	Gly	Glu	His	Gly 10	Arg	His	Leu	His	Lys 15	Ser
Ala	Met	Arg	Arg 20	Asp	Thr	Glu	Ser	Glu 25	Leu	His	His	Gln	Arg 30	Gln	Val
Gln	Gly	Ala 35	Glu	Thr	Val	Gly	Ser 40	Gly	Gln	Gly	Ser	Ala 45	Ala	Phe	Ser
Gly	Pro	Ser	Pro	Tyr	Ala	Arg	Gly	Pro	Gly	Pro	Asp	Leu	Pro	Leu	Leu

50

55

185

60

Gly 65	Gly	Gln	His	Leu	Ser 70	Ile	Arg	Arg	Trp	Phe 75	Lys	Cys	Val	Thr	Met 80
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Ser	Gln	Cys	Val	Leu 85	Glu	Leu	Pro	Phe	Ser 90	Asn	Ala	Asn	Leu	Pro 95	Ser
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Leu	His	Ile	Ser 100	Pro	His	Pro	Trp	Thr 105	Arg	Phe	Cys	Val	Ser 110	Glu	Ser
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Gly	Asn	Leu 115	Leu	Lys	Arg	Gly	Gly 120	Ser	Thr	Pro	Gly	Leu 125	Leu	Val
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<210> 409

<211> 95

<212> PRT

<213> homo sapiens

<400> 409

Lys 1	Gly	Val	Gly	Leu 5	Leu	Ile	Met	Gly	Gly 10	Gln	Gly	Gln	Val	Leu 15	Gly
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His	Arg	Glu	Arg 20	Val	Arg	Arg	Met	Leu 25	Gln	Thr	Pro	Ala	His 30	Cys	Pro
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Arg	Ser	Pro 35	Leu	Pro	Ala	Pro	Ala 40	Ser	Asp	Gly	Ala	Ala 45	Leu	Ile	Pro
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Cys	Leu 50	Ser	Ser	Leu	Gln	Ile 55	Tyr	Glu	Gly	Ala	Tyr 60	His	Val	Leu	His
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Lys 65	Glu	Leu	Pro	Glu	Val 70	Thr	Asn	Ser	Val	Phe 75	His	Glu	Ile	Asn	Met 80
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Trp	Val	Ser	Gln	Arg 85	Thr	Ala	Thr	Ala	Gly 90	Thr	Ala	Ser	Pro	Pro 95
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<210> 410

<211> 296

<212> PRT

<213> homo sapiens

<400> 410

Val 1	Val	Arg	Leu	Ala 5	Pro	Thr	Phe	Gly	His 10	Tyr	Val	Cys	Thr	Val 15	Ile
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Ser	His	Ala	His 20	Glu	Val	Arg	Gln	Met 25	Gln	Glu	Leu	Arg	Arg 30	Val	Arg
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Ser	Gly	Val 35	Met	Ser	Glu	Lys	Asp 40	His	Met	Val	Thr	Met 45	His	Asp	Val
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Leu	Asp	Ala	Gln	Trp	Leu	Tyr	186 Asp	Asn	His	Lys	Asp	Glu	Ser	Tyr	Leu
	50					55					60				
Arg	Arg	Val	Val	Tyr	Pro	Leu	Glu	Lys	Leu	Leu	Thr	Ser	His	Lys	Arg
65					70					75					80
Leu	Val	Met	Lys	Asp	Ser	Ala	Val	Asn	Ala	Ile	Cys	Tyr	Gly	Ala	Lys
				85					90					95	
Ile	Met	Leu	Pro	Gly	Val	Leu	Arg	Tyr	Glu	Asp	Gly	Ile	Glu	Val	Asn
			100					105					110		
Gln	Glu	Ile	Val	Val	Ile	Thr	Thr	Lys	Gly	Glu	Ala	Ile	Cys	Met	Ala
		115					120					125			
Ile	Ala	Leu	Met	Thr	Thr	Ala	Val	Ile	Ser	Thr	Cys	Asp	His	Gly	Ile
	130					135					140				
Val	Ala	Lys	Ile	Lys	Arg	Val	Ile	Met	Glu	Arg	Asp	Thr	Tyr	Pro	Arg
145					150					155					160
Lys	Trp	Gly	Leu	Gly	Pro	Lys	Ala	Ser	Gln	Lys	Lys	Leu	Met	Ile	Lys
				165					170					175	
Gln	Gly	Leu	Leu	Asp	Lys	His	Gly	Lys	Pro	Thr	Asp	Ser	Thr	Pro	Ala
			180					185					190		
Thr	Trp	Lys	Gln	Glu	Tyr	Val	Asp	Tyr	Ser	Glu	Ser	Ala	Lys	Lys	Glu
		195					200					205			
Val	Val	Ala	Glu	Val	Val	Lys	Ala	Pro	Gln	Val	Val	Ala	Glu	Ala	Ala
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Lys	Thr	Ala	Lys	Gly	Ser	Glu	Glu	Ser	Glu	Ser	Glu	Ser	Asp	Glu	Thr
225					230					235				240	
Pro	Pro	Ala	Ala	Pro	Gln	Leu	Ile	Lys	Lys	Glu	Lys	Lys	Lys	Ser	Lys
				245					250					255	
Lys	Asp	Lys	Lys	Ala	Lys	Ala	Gly	Leu	Glu	Ser	Gly	Ala	Glu	Pro	Gly
			260					265					270		
Asp	Gly	Asp	Ser	Asp	Thr	Thr	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Ala
		275					280					285			
Lys	Glu	Val	Glu	Leu	Val	Ser	Glu								
	290					295									

<210> 411
<211> 280

<212> PRT

<213> homo sapiens

<400> 411

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Gly	Arg	His	Asp 20	Ala	Val	Gln	Gly	Asn 25	Met	Ala	Asp	Ala	Glu 30	Val	Ile
Ile	Leu	Pro 35	Lys	Lys	His	Lys	Lys 40	Lys	Lys	Glu	Arg	Lys 45	Ser	Leu	Pro
Glu	Glu 50	Asp	Val	Ala	Glu	Ile 55	Gln	His	Ala	Glu	Glu 60	Phe	Phe	Ile	Lys
Pro 65	Glu	Ser	Lys	Val	Ala 70	Lys	Leu	Asp	Thr	Ser 75	Gln	Trp	Pro	Leu	Leu 80
Leu	Lys	Asn	Phe	Asp 85	Lys	Leu	Asn	Val	Arg 90	Thr	Thr	His	Tyr	Thr 95	Pro
Leu	Ala	Cys	Gly 100	Ser	Asn	Pro	Leu	Lys 105	Arg	Glu	Ile	Gly	Asp 110	Tyr	Ile
Arg	Thr	Gly 115	Phe	Ile	Asn	Leu	Asp 120	Lys	Pro	Ser	Asn	Pro 125	Ser	Ser	His
Glu	Val 130	Val	Ala	Trp	Ile	Arg 135	Arg	Ile	Leu	Arg	Val 140	Glu	Lys	Thr	Gly
His 145	Ser	Gly	Thr	Leu	Asp 150	Pro	Lys	Val	Thr	Gly 155	Cys	Leu	Ile	Val	Cys 160
Ile	Glu	Arg	Ala	Thr 165	Arg	Leu	Val	Lys	Ser 170	Gln	Gln	Ser	Ala	Gly 175	Lys
Glu	Tyr	Val	Gly 180	Ile	Val	Arg	Leu	His 185	Asn	Ala	Ile	Glu	Gly 190	Gly	Thr
Gln	Leu	Ser 195	Arg	Ala	Leu	Glu	Thr 200	Leu	Thr	Gly	Ala	Leu 205	Phe	Gln	Arg
Pro	Pro 210	Leu	Ile	Ala	Ala	Val 215	Lys	Arg	Gln	Leu	Arg 220	Val	Arg	Thr	Ile
Tyr 225	Glu	Ser	Lys	Met	Ile 230	Glu	Tyr	Asp	Pro	Glu 235	Arg	Arg	Leu	Gly	Ile 240
Phe	Trp	Val	Ser	Cys	Glu	Ala	Gly	Thr	Tyr	Ile	Arg	Thr	Leu	Cys	Val

188															
245								250				255			
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Glu	Gly	Ser 275	Phe	Trp	Ser	His	Glu 280								
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<212> PRT															
<213> homo sapiens															
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Ser	Ala	Ser	Ser 20	Ile	Leu	Trp	Lys	Pro 25	Asp	His	Cys	Pro	Trp 30	Gln	Arg
Phe	Pro	Gly 35	His	Gln	Glu	Phe	Glu 40	Glu	Glu	Arg	Leu	Arg 45	Pro	Ala	Gly
Met	His 50	Gly	Thr	Gln	Arg	Gly 55	Arg	Gly	Gly	Gln	Val 60	Asp	Pro	Ala	Ala
His 65	Cys	Pro	Gly	Ala	His 70	Gly	Glu	Thr	His	Leu 75	Pro	Arg	Pro	Asp	Gln 80
Arg	Glu	Asp	His	Gly 85	His	Gly	Gly	Ala	Thr 90	Thr	Phe	Ser	Leu	Asn 95	Cys
Ser	Ala	Ala	Gly 100	Thr	Pro	Thr	Pro	Ser 105	Leu	Val	Trp	Val	Leu 110	Pro	Asn
Gly	Thr	Asp 115	Leu	Gln	Ser	Gly	Gln 120	Gln	Leu	Gln	Arg	Phe 125	Tyr	His	Lys
Ala	Asp 130	Gly	Met	Leu	His	Ile 135	Ser	Gly	Leu	Ser	Ser 140	Val	Asp	Ala	Gly
Ala 145	Tyr	Arg	Cys	Val	Ala 150	Arg	Asn	Ala	Ala	Gly 155	His	Thr	Glu	Arg	Leu 160
Val	Ser	Leu	Lys	Val 165	Gly	Leu	Lys	Pro	Glu 170	Ala	Asn	Lys	Gln	Tyr 175	His
Asn	Leu	Val	Ser 180	Ile	Ile	Asn	Gly	Glu 185	Thr	Leu	Lys	Leu	Pro 190	Cys	Thr
Pro	Pro	Gly	Ala	Gly	Gln	Gly	Arg	Phe	Ser	Trp	Thr	Leu	Pro	Asn	Gly

	195			189 200			205									
Met	His 210	Leu	Glu	Gly	Pro	Gln 215	Thr	Leu	Gly	Arg	Val 220	Ser	Leu	Leu	Asp	
Asn 225	Gly	Thr	Leu	Thr	Val 230	Arg	Glu	Ala	Ser	Val 235	Phe	Asp	Arg	Gly	Thr 240	
Tyr	Val	Cys	Arg	Met 245	Glu	Thr	Glu	Tyr	Gly 250	Pro	Ser	Val	Thr	Ser 255	Ile	
Pro	Val	Ile	Val 260	Ile	Ala	Tyr	Pro	Pro 265	Arg	Ile	Thr	Ser	Glu 270	Pro	Thr	
Pro	Val	Ile 275	Tyr	Thr	Arg	Pro	Gly 280	Asn	Thr	Val	Lys	Leu 285	Asn	Cys	Met	
Ala	Met 290	Gly	Ile	Pro	Lys	Ala 295	Asp	Ile	Thr	Trp	Glu 300	Leu	Pro	Asp	Lys	
Ser 305	His	Leu	Lys	Ala	Gly 310	Val	Gln	Ala	Arg	Leu 315	Tyr	Gly	Asn	Arg	Phe 320	
Leu	His	Pro	Gln	Gly 325	Ser	Leu	Thr	Ile	Gln 330	His	Ala	Thr	Gln	Arg 335	Asp	
Ala	Gly	Phe	Tyr 340	Lys	Cys	Met	Ala	Lys 345	Asn	Ile	Leu	Gly	Ser 350	Asp	Ser	
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Glu	Met	Arg	Val 20	Arg	Val	Lys	Val	Val 25	Thr	Ala	Pro	Ala	Thr 30	Ile	Arg	
Asn	Lys	Thr 35	Tyr	Leu	Ala	Val	Gln 40	Val	Pro	Tyr	Gly	Asp 45	Val	Val	Thr	
Val	Ala 50	Cys	Glu	Ala	Lys	Gly 55	Glu	Pro	Met	Pro	Lys 60	Val	Thr	Trp	Leu	
Ser	Pro	Thr	Asn	Lys	Val	Ile	Pro	Thr	Ser	Ser	Glu	Lys	Tyr	Gln	Ile	

65					70					190					75					80				
Tyr	Gln	Asp	Gly	Thr 85	Leu	Leu	Ile	Gln	Lys 90	Ala	Gln	Arg	Ser	Asp 95	Ser									
Gly	Asn	Tyr	Thr 100	Cys	Leu	Val	Arg	Asn 105	Ser	Ala	Gly	Glu	Asp 110	Arg	Lys									
Thr	Val	Trp 115	Ile	His	Val	Asn	Val 120	Gln	Pro	Pro	Lys	Ile 125	Asn	Gly	Asn									
Pro	Asn 130	Pro	Ile	Thr	Thr	Val 135	Arg	Glu	Ile	Ala	Ala 140	Gly	Gly	Ser	Arg									
Lys 145	Leu	Ile	Glu	Cys	Lys 150	Ala	Glu	Gly	Ile	Pro 155	Thr	Pro	Arg	Val	Leu 160									
Trp	Ala	Phe	Pro	Glu 165	Gly	Val	Val	Leu	Pro 170	Ala	Pro	Tyr	Tyr	Gly 175	Asn									
Arg	Ile	Thr	Val 180	His	Gly	Asn	Gly	Ser 185	Leu	Asp	Ile	Arg	Ser 190	Leu	Arg									
Lys	Ser	Asp 195	Ser	Val	Gln	Leu	Val 200	Cys	Met	Ala	Arg	Asn 205	Glu	Gly	Gly									
Glu	Ala 210	Arg	Leu	Ile	Leu	Gln 215	Leu	Thr	Val	Leu	Glu 220	Pro	Met	Glu	Lys									
Pro 225	Ile	Phe	His	Asp	Pro 230	Ile	Ser	Glu	Lys	Ile 235	Thr	Ala	Met	Ala	Gly 240									
Pro	Gln	His	Ser	Ala 245	Ser	Thr	Ala	Leu	Pro 250	Arg	Gly	Pro	Arg	His 255	Pro									
Ala	Trp	Cys	Gly 260	Ser	Phe	Pro	Met	Ala 265	Pro	Ile	Cys	Arg	Val 270	Asp	Ser									
Ser	Cys	Ser 275	Ala	Ser	Thr	Thr	Arg 280	Leu	Thr	Ala	Cys	Tyr 285	Thr	Leu	Ala									
Val	Ser 290	Pro	Arg	Trp	Thr	Leu 295	Gly	Pro	Thr	Ala	Ala 300	Trp	Pro	Ala	Met									
Pro 305	Leu	Ala	Thr	Arg	Arg 310	Gly	Trp	Ser	Pro															

<210> 414
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 <212> PRT

<213> homo sapiens

<400> 414

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Gly	Ala	Leu	Pro 20	Leu	Arg	Pro	Pro	Pro 25	Leu	Thr	Met	Ala	Val 30	Phe	His
Asp	Glu	Val 35	Glu	Ile	Glu	Asp	Phe 40	Gln	Tyr	Asp	Glu	Asp 45	Ser	Glu	Thr
Tyr	Phe 50	Tyr	Pro	Cys	Pro	Cys 55	Gly	Asp	Asn	Phe	Ser 60	Ile	Thr	Lys	Glu
Asp 65	Leu	Glu	Asn	Gly	Glu 70	Asp	Val	Ala	Thr	Cys 75	Pro	Ser	Cys	Ser	Leu 80
Ile	Ile	Lys	Val	Ile 85	Tyr	Asp	Lys	Asp	Gln 90	Phe	Val	Cys	Gly	Glu 95	Thr
Val	Pro	Ala	Pro 100	Ser	Ala	Asn	Lys	Glu 105	Leu	Val	Lys	Cys			

<210> 415

<211> 103

<212> PRT

<213> homo sapiens

<400> 415

Tyr 1	Ala	Lys	Ser	Thr 5	Ala	Thr	Ser	His	Gly 10	Asn	Leu	Thr	Leu	Thr 15	Pro
Thr	Trp	Asn	Ala 20	Ile	Ser	Leu	Ala	Leu 25	Ser	Lys	His	Lys	Gln 30	Lys	Leu
Arg	Tyr	Arg 35	Asn	Ile	Thr	Cys	Ser 40	Asp	Leu	Ala	Lys	Ser 45	Phe	Lys	His
Ser	Thr 50	Tyr	Tyr	Thr	Gly	Met 55	Leu	Cys	Ser	Ser	His 60	Ser	Val	Thr	Asn
Phe 65	Thr	Ser	Phe	Gly	Cys 70	Phe	Ser	Phe	His	Leu 75	Val	Leu	Thr	Ser	Lys 80
Glu	Tyr	Ala	Glu	Tyr 85	Lys	Lys	Ser	Pro	His 90	Ser	Phe	Ile	Thr	Ser 95	Phe
Trp	Thr	Phe	Phe 100	Leu	Val	His									

<210> 416

<211> 144

<212> PRT
 <213> homo sapiens

<400> 416

Tyr 1	Thr	Met	Xxx	Ile 5	Ile	Tyr	Phe	Thr	Arg 10	Xxx	Ile	Leu	Tyr	Xxx 15	Gln
Gly	Gly	Ile	Leu 20	Lys	Tyr	Asn	Thr	Pro 25	Gly	Xxx	Ser	Phe	Leu 30	Leu	Tyr
Ile	Met	Ile 35	Val	Ser	Phe	His	Ile 40	Ser	Trp	Xxx	Leu	Xxx 45	Xxx	Gly	Lys
Gly	Thr 50	Xxx	Lys	Ser	Ile	Phe 55	Ile	Tyr	Ile	Lys	Thr 60	Lys	Xxx	Xxx	Gln
Xxx 65	Arg	Leu	Xxx	Pro	Pro 70	Lys	Cys	Leu	Val	Ser 75	Leu	Glu	Asn	Asn	Met 80
Asn	Glu	Xxx	Xxx	Lys 85	Met	Asn	Gln	Ile	Thr 90	Trp	Xxx	Thr	His	Arg 95	Arg
Xxx	Asn	Lys	Xxx 100	Ala	Gln	Glu	Ile	Lys 105	Ser	Cys	Phe	Lys	Leu 110	Gly	His
Ile	Lys	Gly 115	Lys	Lys	Gly	Ser	Glu 120	Arg	Arg	Val	Arg	Lys 125	Ile	Ser	Ser
Gln	Ala 130	Thr	Lys	Asn	Leu	Xxx 135	Arg	Arg	Gln	Pro	Pro 140	Asn	Xxx	Ile	Arg

<210> 417
 <211> 74
 <212> PRT
 <213> homo sapiens

<400> 417

Leu 1	Ile	Leu	Met	Gly 5	Arg	Leu	Ile	Tyr	Asn 10	Xxx	Asn	Tyr	Leu	Phe 15	Tyr
Lys	Xxx	Asp	Ser 20	Ile	His	Xxx	Gly	Arg 25	His	Leu	Glu	Val	Gln 30	Tyr	Thr
Arg	Xxx	Phe 35	Ile	Ser	Ser	Leu	His 40	Tyr	Asp	Cys	Glu	Phe 45	Pro	Tyr	Lys
Leu	Xxx 50	Thr	Xxx	His	Xxx	Lys 55	Gly	Asn	Xxx	Lys	Ile 60	His	Phe	Tyr	Ile
His 65	Lys	Asn	Lys	Thr	Xxx 70	Pro	Xxx	Glu	Thr						

<210> 418
 <211> 121
 <212> PRT
 <213> homo sapiens

<400> 418

Tyr 1	Pro	Phe	Phe	Thr 5	Leu	Cys	Gln	Arg	Asn 10	Arg	Val	Phe	Asp	Ile 15	Ser
Ser	Tyr	Val	Lys 20	Glu	Met	Leu	Gln	Asn 25	Val	Asn	Cys	Phe	Lys 30	Leu	Lys
Leu	Pro	Leu 35	Lys	Arg	Pro	Arg	Tyr 40	Ile	Tyr	Leu	Ile	Val 45	Tyr	Ile	Met
Phe	Asn 50	Ile	Cys	Gln	Ser	Ile 55	Leu	Gln	Val	Cys	Ser 60	Phe	Ile	Ser	Ile
Lys 65	Tyr	Gly	Tyr	Tyr	Val 70	Ala	Gln	Leu	Leu	Lys 75	Trp	Tyr	Cys	Ile	Val 80
Tyr	Ile	Cys	Thr	Pro 85	Asn	Asn	Ile	Val	Cys 90	Thr	Phe	Cys	Phe	Leu 95	Tyr
Cys	Ile	Cys	Ala 100	Gly	Phe	Phe	Arg	Leu 105	Tyr	Gln	Cys	Asn	Leu 110	Cys	Leu
Leu	Arg	Tyr 115	Val	Gln	Lys	Met	Ser 120	Ile							

<210> 419
 <211> 114
 <212> PRT
 <213> homo sapiens

<400> 419

Phe 1	Phe	Phe	Phe	Phe 5	Phe	Phe	Phe	Phe	Ser 10	Phe	Gln	Arg	Ile	His 15	Phe
Phe	Phe	Phe	Phe 20	Phe	Phe	Phe	Phe	Phe 25	Gly	Lys	Asn	Val	Ile 30	Tyr	Leu
His	Cys	Phe 35	His	Ser	Ser	Thr	Val 40	Val	Leu	Gly	Leu	Asn 45	Ile	Ser	Ile
Thr	Leu 50	Leu	Phe	Pro	Ile	Tyr 55	Ile	Leu	Leu	Glu	Tyr 60	Tyr	Tyr	Lys	Tyr
Asn 65	Ile	Gln	Phe	Lys	Lys 70	Thr	Tyr	Gly	Glu	Thr 75	Gln	Leu	Met	Phe	Phe 80
Ser	Pro	Leu	Tyr	Arg 85	Leu	Leu	Ser	Ile	Ile 90	Arg	Leu	Gln	Trp	Lys 95	Phe

Ile Trp Thr Phe Ser Val His Ile Leu Lys Gly Arg Asp Tyr Thr Asp
100 105 110

Lys Ala

<210> 420

<211> 765

<212> PRT

<213> homo sapiens

<400> 420

Ile	Arg	Pro	Val	Val	Gln	Leu	Thr	Ala	Ile	Glu	Ile	Leu	Ala	Trp	Gly
1				5					10					15	
Leu	Arg	Asn	Met	Lys	Asn	Phe	Gln	Met	Ala	Ser	Ile	Thr	Ser	Pro	Ser
			20					25					30		
Leu	Val	Val	Glu	Cys	Gly	Gly	Glu	Arg	Val	Glu	Ser	Val	Val	Ile	Lys
		35					40					45			
Asn	Leu	Lys	Lys	Thr	Pro	Asn	Phe	Pro	Ser	Ser	Val	Leu	Phe	Met	Lys
	50					55					60				
Val	Phe	Leu	Pro	Lys	Glu	Glu	Leu	Tyr	Met	Pro	Pro	Leu	Val	Ile	Lys
65					70					75					80
Val	Ile	Asp	His	Arg	Gln	Phe	Gly	Arg	Lys	Pro	Val	Val	Gly	Gln	Cys
				85					90					95	
Thr	Ile	Glu	Arg	Leu	Asp	Arg	Phe	Arg	Cys	Asp	Pro	Tyr	Ala	Gly	Lys
			100					105					110		
Glu	Asp	Ile	Val	Pro	Gln	Leu	Lys	Ala	Ser	Leu	Leu	Ser	Ala	Pro	Pro
		115					120					125			
Cys	Arg	Asp	Ile	Val	Ile	Glu	Met	Glu	Asp	Thr	Lys	Pro	Leu	Leu	Ala
	130					135					140				
Ser	Lys	Leu	Thr	Glu	Lys	Glu	Glu	Glu	Ile	Val	Asp	Trp	Trp	Ser	Lys
145					150					155					160
Phe	Asp	Ala	Ser	Ser	Gly	Glu	His	Glu	Lys	Cys	Gly	Gln	Tyr	Ile	Gln
				165					170					175	
Lys	Gly	Tyr	Ser	Lys	Leu	Lys	Ile	Tyr	Asn	Cys	Glu	Leu	Glu	Asn	Val
			180					185					190		
Ala	Glu	Phe	Glu	Gly	Leu	Thr	Asp	Phe	Ser	Asp	Thr	Phe	Lys	Leu	Tyr
		195					200					205			

Arg	Gly 210	Lys	Ser	Asp	Glu	Asn 215	Glu	Asp	Pro	Ser	Val 220	Val	Gly	Glu	Phe
Lys 225	Gly	Ser	Phe	Arg	Ile 230	Tyr	Pro	Leu	Pro	Asp 235	Asp	Pro	Ser	Val	Pro 240
Ala	Pro	Pro	Arg	Gln 245	Phe	Arg	Glu	Leu	Pro 250	Asp	Ser	Val	Pro	Gln 255	Glu
Cys	Thr	Val	Arg 260	Ile	Tyr	Ile	Val	Arg 265	Gly	Leu	Glu	Leu	Gln 270	Pro	Gln
Asp	Asn	Asn 275	Gly	Leu	Cys	Asp	Pro 280	Tyr	Ile	Lys	Ile	Thr 285	Leu	Gly	Lys
Lys	Val 290	Ile	Glu	Asp	Arg	Asp 295	His	Tyr	Ile	Pro	Asn 300	Thr	Leu	Asn	Pro
Val 305	Phe	Gly	Arg	Met	Tyr 310	Glu	Leu	Ser	Cys	Tyr 315	Leu	Pro	Gln	Glu	Lys 320
Asp	Leu	Lys	Ile	Ser 325	Val	Tyr	Asp	Tyr	Asp 330	Thr	Phe	Thr	Arg	Asp 335	Glu
Lys	Val	Gly	Glu 340	Thr	Ile	Ile	Asp	Leu 345	Glu	Asn	Arg	Phe	Leu 350	Ser	Arg
Phe	Gly	Ser 355	His	Cys	Gly	Ile	Pro 360	Glu	Glu	Tyr	Cys	Val 365	Ser	Gly	Val
Asn	Thr 370	Trp	Arg	Asp	Gln	Leu 375	Arg	Pro	Thr	Gln	Leu 380	Leu	Gln	Asn	Val
Ala 385	Arg	Phe	Lys	Gly	Phe 390	Pro	Gln	Pro	Ile	Leu 395	Ser	Glu	Asp	Gly	Ser 400
Arg	Ile	Arg	Tyr	Gly 405	Gly	Arg	Asp	Tyr	Ser 410	Leu	Asp	Glu	Phe	Glu 415	Ala
Asn	Lys	Ile	Leu 420	His	Gln	His	Leu	Gly 425	Ala	Pro	Glu	Glu	Arg 430	Leu	Ala
Leu	His	Ile 435	Leu	Arg	Thr	Gln	Gly 440	Leu	Val	Pro	Glu	His 445	Val	Glu	Thr
Arg	Thr 450	Leu	His	Ser	Thr	Phe 455	Gln	Pro	Asn	Ile	Ser 460	Gln	Gly	Lys	Leu

196

Gln 465	Met	Trp	Val	Asp	Val 470	Phe	Pro	Lys	Ser	Leu 475	Gly	Pro	Pro	Gly	Pro 480
Pro	Phe	Asn	Ile	Thr 485	Pro	Arg	Lys	Ala	Lys 490	Lys	Tyr	Tyr	Leu	Arg 495	Val
Ile	Ile	Trp	Asn 500	Thr	Lys	Asp	Val	Ile 505	Leu	Asp	Glu	Lys	Ser 510	Ile	Thr
Gly	Glu	Glu 515	Met	Ser	Asp	Ile	Tyr 520	Val	Lys	Gly	Trp	Ile 525	Pro	Gly	Asn
Glu	Glu 530	Asn	Lys	Gln	Lys	Thr 535	Asp	Val	His	Tyr	Arg 540	Ser	Leu	Asp	Gly
Glu 545	Gly	Asn	Phe	Asn	Trp 550	Arg	Phe	Val	Phe	Pro 555	Phe	Asp	Tyr	Leu	Pro 560
Ala	Glu	Gln	Leu	Cys 565	Ile	Val	Ala	Lys	Lys 570	Glu	His	Phe	Trp	Ser 575	Ile
Asp	Gln	Thr	Glu 580	Phe	Arg	Ile	Pro	Pro 585	Arg	Leu	Ile	Ile	Gln 590	Ile	Trp
Asp	Asn	Asp 595	Lys	Phe	Ser	Leu	Asp 600	Asp	Tyr	Leu	Gly	Phe 605	Leu	Glu	Leu
Asp	Leu 610	Arg	His	Thr	Ile	Ile 615	Pro	Ala	Lys	Ser	Pro 620	Glu	Lys	Cys	Arg
Leu 625	Asp	Met	Ile	Pro	Asp 630	Leu	Lys	Ala	Met	Asn 635	Pro	Leu	Lys	Ala	Lys 640
Thr	Ala	Ser	Leu	Phe 645	Glu	Gln	Lys	Ser	Met 650	Lys	Gly	Trp	Trp	Pro 655	Cys
Tyr	Ala	Glu	Lys 660	Asp	Gly	Ala	Arg	Val 665	Met	Ala	Gly	Lys	Val 670	Glu	Met
Thr	Leu	Glu 675	Ile	Leu	Asn	Glu	Lys 680	Glu	Ala	Asp	Glu	Arg 685	Pro	Ala	Gly
Lys	Gly 690	Arg	Asp	Glu	Pro	Asn 695	Met	Asn	Pro	Lys	Leu 700	Asp	Leu	Pro	Asn
Arg 705	Pro	Glu	Thr	Ser	Phe 710	Leu	Trp	Phe	Thr	Asn 715	Pro	Cys	Lys	Thr	Met 720
Lys	Phe	Ile	Val	Trp	Arg	Arg	Phe	Lys	Trp	Val	Ile	Ile	Gly	Leu	Leu

197

725

730

735

Phe	Leu	Leu	Ile 740	Leu	Leu	Leu	Phe	Val 745	Ala	Val	Leu	Leu	Tyr 750	Ser	Leu
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Pro	Asn	Tyr 755	Leu	Ser	Met	Lys	Ile 760	Val	Lys	Pro	Asn	Val 765			
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<210> 421

<211> 289

<212> PRT

<213> homo sapiens

<400> 421

Glu 1	Thr	Gln	Val	Val 5	Ile	Gln	Arg	Lys	Leu 10	Val	Ile	Val	Pro	Tyr 15	Leu
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Asn	Asp	Gln	Pro 20	Gly	Trp	Asp	Ser	Lys 25	Phe	Arg	Leu	Val	Asn 30	Thr	Pro
-----	-----	-----	-----------	-----	-----	-----	-----	-----------	-----	-----	-----	-----	-----------	-----	-----

Glu	Met	Leu 35	Phe	Phe	Arg	Asn	Asp 40	Thr	Glu	Leu	Phe	Gly 45	Trp	Lys	Val
-----	-----	-----------	-----	-----	-----	-----	-----------	-----	-----	-----	-----	-----------	-----	-----	-----

Val	Lys 50	Arg	Glu	Asn	Lys	Ser 55	Pro	Val	Lys	Ile	Pro 60	Phe	Thr	Ile	Gln
-----	-----------	-----	-----	-----	-----	-----------	-----	-----	-----	-----	-----------	-----	-----	-----	-----

Arg 65	Ser	Val	Met	Asp	Ile 70	Cys	Phe	Leu	Phe	Val 75	Phe	Phe	Ile	Ala	Arg 80
-----------	-----	-----	-----	-----	-----------	-----	-----	-----	-----	-----------	-----	-----	-----	-----	-----------

Asn	Pro	Ala	Phe	Asp 85	Val	Asp	Val	Thr	His 90	Phe	Leu	Ser	Cys	Asp 95	Ala
-----	-----	-----	-----	-----------	-----	-----	-----	-----	-----------	-----	-----	-----	-----	-----------	-----

Phe	Leu	Val	Gln 100	Asp	Asn	Val	Leu	Gly 105	Val	Pro	Asp	Asp	His 110	Thr	Gln
-----	-----	-----	------------	-----	-----	-----	-----	------------	-----	-----	-----	-----	------------	-----	-----

Val	Val	Phe 115	Leu	Gly	Phe	Pro	Gly 120	Cys	Asp	Val	Glu	Arg 125	Arg	Ala	Trp
-----	-----	------------	-----	-----	-----	-----	------------	-----	-----	-----	-----	------------	-----	-----	-----

Trp	Pro 130	Gln	Thr	Leu	Gly	Glu 135	Asn	Ile	His	Pro	His 140	Leu	Lys	Phe	Ser
-----	------------	-----	-----	-----	-----	------------	-----	-----	-----	-----	------------	-----	-----	-----	-----

Leu 145	Gly	Asn	Val	Gly	Leu 150	Glu	Gly	Ala	Val	Gln 155	Ser	Pro	Cys	Phe	His 160
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Val	Leu	Arg	Asp	Gln 165	Pro	Leu	Ser	Pro	Glu 170	Asp	Val	Lys	Ser	Lys 175	Pro
-----	-----	-----	-----	------------	-----	-----	-----	-----	------------	-----	-----	-----	-----	------------	-----

Leu	Phe	Arg	Gly 180	Pro	Glu	Val	Leu	Val 185	Gln	Asp	Phe	Val	Gly 190	Phe	Lys
-----	-----	-----	------------	-----	-----	-----	-----	------------	-----	-----	-----	-----	------------	-----	-----

Phe	Ile	Gln	Ala	Val	Val	Ser	Ser	Ser	Ile	Ser	Asp	Ser	Thr	Pro	Ile
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

195							198 200			205					
Phe	Gly	Lys	Asp	Gly	Leu	Trp	Glu	Ala	Phe	Glu	Ser	Gly	Asp	Ile	Leu
	210					215					220				
Lys	Gln	Leu	Cys	Trp	Ser	Gln	Leu	Ile	Ser	Pro	Gly	Ile	Asp	Ser	Arg
225					230					235					240
Asn	Thr	Val	Leu	Leu	Trp	Tyr	Ala	Ala	Val	Gly	Pro	Lys	Ala	Gly	Lys
				245					250					255	
Glu	Ser	Val	Phe	Gln	Ile	Asn	Asn	Cys	Phe	Ser	Tyr	Phe	Phe	Ile	Pro
			260					265					270		
Gly	Lys	Gly	Val	Ile	Ile	Ile	Asp	Arg	Asn	Phe	Gln	Val	Phe	Phe	Leu
		275					280					285			

Arg

<210> 422
 <211> 90
 <212> PRT
 <213> homo sapiens

<400> 422

Phe	Phe	Leu	Tyr	Ser	Phe	Ser	Ser	Asp	Asn	His	Asp	Phe	Arg	Ser	Phe
1				5					10					45	
Lys	Thr	Ile	Tyr	Leu	Ala	Phe	Val	Ser	Gly	Gly	Glu	Leu	Ala	Ile	Ser
			20					25					30		
Leu	Leu	Lys	Pro	Ala	Ile	Ile	Val	Asn	Leu	Arg	Thr	Gly	Leu	Ser	Trp
		35					40					45			
Gly	Ser	Glu	Gly	Lys	Glu	Leu	Phe	Glu	Gln	Met	Cys	Val	Gly	Gly	Thr
	50					55					60				
Gly	Phe	His	Pro	Thr	Ala	Lys	Leu	Val	Leu	Leu	Glu	Ile	Ser	Phe	Tyr
65					70					75					80
Asn	Thr	Lys	Ile	Ser	Leu	Cys	Gln	Arg	Phe						
				85					90						

<210> 423
 <211> 81
 <212> PRT
 <213> homo sapiens

<400> 423

Thr	Pro	Ser	Gly	Ser	Ser	Trp	Arg	Thr	Tyr	Leu	Ser	Arg	Arg	Asn	Ser
1				5					10					15	
Lys	Gly	Glu	Arg	Thr	Gly	Pro	Pro	Leu	Ile	Pro	Met	Thr	Leu	Pro	Pro

20

25

30

Gly	Pro	Leu 35	Pro	Thr	Thr	Cys	Gly 40	Asn	Ser	Gln	Lys	Ile 45	Asn	Ser	Ser
Cys	Asn 50	Phe	Ser	Gly	Asp	Ile 55	Ala	Gln	Thr	His	Ile 60	Thr	Gly	Asp	Ala
His 65	Phe	Phe	Ser	Ile	Arg 70	Asp	Ser	Gln	Ser	Glu 75	Glu	Thr	Pro	Cys	Val 80

Ala

<210> 424
 <211> 129
 <212> PRT
 <213> homo sapiens

<400> 424

Glu 1	Asn	Trp	Ala	Ser 5	Arg	Tyr	Phe	Gln	Ser 10	Ser	Phe	Thr	Glu	Gln 15	Lys
Val	Trp	Val	Gly 20	His	Trp	Leu	Glu	Gly 25	Asp	Ser	Pro	Thr	Leu 30	Thr	Val
Thr	Ile	Trp 35	Ala	Ala	Thr	Gly	Gly 40	Ile	Val	Gln	Leu	Ala 45	Ser	Arg	Cys
Ile	Pro 50	His	Leu	Lys	Tyr	Cys 55	Trp	Ile	Lys	Ala	Ile 60	Tyr	Thr	Leu	Ala
Lys 65	Ser	Lys	Ala	Lys	Glu 70	Ile	Ala	Leu	Asp	Pro 75	Glu	Ser	Gln	Gln	Asp 80
His	Leu	Ile	Phe	Pro 85	Asn	Gln	His	Leu	Gly 90	Gln	Gln	Leu	Pro	Ser 95	Thr
Phe	Leu	Phe	His 100	Ser	Trp	Phe	Phe	Phe 105	Phe	Phe	Phe	Leu	Gln 110	Asp	Leu
Ala	Val	Thr 115	Gln	Asp	Gly	Val	Gln 120	Trp	His	Asp	His	Gly 125	Ser	Leu	Gln

Pro

<210> 425
 <211> 122
 <212> PRT
 <213> homo sapiens

<400> 425

Glu	Ala	Gln	Lys	Trp	Asp	Cys	Ile	Trp	Thr	Lys	Asn	Tyr	Lys	Lys	Val
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1			5				200				10			15			
Gln	Ser	Leu	Val 20	Ser	Arg	Met	Gln	Ala 25	Leu	Ala	Leu	Gly	Asp 30	Gly	Ser		
Ser	Leu	Glu 35	Asn	Pro	Ala	Ala	Asp 40	Ser	Leu	Phe	Gln	Arg 45	Arg	Ser	Phe		
Glu	Arg 50	Arg	Val	Cys	Tyr	Ile 55	Ser	Phe	Phe	Thr	Val 60	Thr	Leu	Trp	Arg		
Leu 65	Lys	Asp	Leu	Val	Val 70	Ser	Cys	Phe	Leu	Lys 75	Ile	Thr	Gly	Ile	Trp 80		
Arg	Pro	Val	Lys	Pro 85	Phe	Trp	Thr	Asp	Ile 90	Ser	Ser	Lys	Tyr	Phe 95	Phe		
Ile	Lys	Val	Phe 100	Glu	Gly	Asp	Asp	Phe 105	Leu	Asp	Leu	Trp	Leu 110	Asp	Ile		
Leu	Gly	Phe 115	Pro	Asp	Tyr	Ile	Val 120	Leu	Ser								

<210> 426
 <211> 105
 <212> PRT
 <213> homo sapiens

<400> 426

Arg 1	Phe	Lys	Lys	Ser 5	Pro	Gln	Arg	Gln	Asn 10	His	Asn	Met	Ser	Arg 15	Arg
Asn	Lys	Lys	Leu 20	Leu	Asp	Ile	Pro	Gly 25	Ser	Phe	Leu	Tyr	Asp 30	Ser	Gly
Leu	Gln	Val 35	Lys	Phe	Leu	Ser	Leu 40	Ser	Ser	Glu	Glu	Phe 45	Glu	Leu	Ile
Pro	Ala 50	Lys	Tyr	Phe	Asn	Leu 55	Phe	Ile	Thr	Ala	Ser 60	Ser	Pro	Ile	Phe
Phe 65	Leu	Gly	Lys	Gly	Met 70	Leu	Gly	Leu	Gly	Pro 75	Lys	Leu	Leu	Ala	Gly 80
Gly	Gly	Ala	Met	Cys 85	His	Ser	Ile	Thr	Asp 90	Gly	Cys	Lys	Cys	Phe 95	Thr
Glu	Gln	Gly	Ser 100	Gly	Leu	Gln	Gln	Leu	105						

<210> 427
 <211> 96
 <212> PRT

<213> homo sapiens

<400> 427

Glu 1	Lys	Tyr	Glu	Glu 5	Leu	Arg	Arg	Lys	Lys 10	Lys	Lys	Lys	Lys	Arg 15	Thr
Asn	Asn	Leu	Asn 20	Cys	Leu	Leu	Gln	Asn 25	Val	Gly	His	Phe	Met 30	Leu	Arg
Glu	Glu	Phe 35	Gln	Gly	Met	Ala	Met 40	Glu	Cys	Thr	Ser	Met 45	Trp	Ala	Asp
Phe	Gln 50	Gln	Thr	Leu	Phe	Pro 55	Leu	Phe	Lys	Glu	Leu 60	Val	Asp	Tyr	Cys
His 65	Ser	Leu	His	Asn	Pro 70	Val	Gly	Ser	Ser	Asp 75	Pro	Tyr	Lys	Leu	Glu 80
Asn	Ile	Ile	Phe	Cys 85	Leu	Leu	Met	Ile	Gln 90	Leu	Met	Pro	Tyr	Ser 95	Ser

<210> 428

<211> 151

<212> PRT

<213> homo sapiens

<400> 428

Arg 1	Lys	Lys	Gly	Glu 5	Thr	Glu	Arg	Glu	Leu 10	Ser	Ala	Ser	Thr	Gln 15	Thr
Leu	Ser	His	Leu 20	Gln	Gly	His	Leu	Pro 25	Ser	Trp	Pro	Arg	Pro 30	Ala	Pro
Thr	Val	Thr 35	Ser	Ala	Ser	Arg	Arg 40	Phe	Ile	Ile	Lys	Lys 45	Asn	Gln	Lys
Gln	Ser 50	Gln	Asn	Gln	Asn	Lys 55	Ile	Gln	Lys	Glu	Lys 60	Thr	Trp	Gly	Asn
Gly 65	Met	Arg	Lys	Arg	Gly 70	Gly	Glu	Glu	Gly	Arg 75	Arg	Ala	Gly	Leu	Trp 80
Met	His	Asn	Ser	Arg 85	Ala	Arg	Gly	Leu	Gly 90	Arg	Lys	Ile	Pro	Gln 95	Arg
Pro	Ala	Ala	Cys 100	Val	Ala	Leu	Ala	Arg 105	His	Val	Val	Phe	Gly 110	Gly	Arg
Leu	Pro	Ile 115	His	Pro	Val	Glu	Ile 120	Leu	Val	Ala	Gly	Leu 125	Leu	Gly	Gly

202
Val Lys Pro Val Ser Asp Arg Gln Ala Gly Lys Gly Leu Gly Asp Gly
130 135 140

Gly Cys Gly Arg Glu Arg Val
145 150

<210> 429
<211> 150
<212> PRT
<213> homo sapiens

<400> 429

Arg His Ala Gly Gly Gly Ala Leu Gly Asn Leu Pro Pro Gln Pro Pro
1 5 10 15

Gly Ser Gly Val Met His Pro Glu Thr Cys Pro Ser Thr Phe Leu Ala
20 25 30

Ser Pro Leu Pro His Ser Ile Ala Pro Gly Leu Phe Leu Leu Asp Phe
35 40 45

Val Leu Val Leu Ala Leu Phe Leu Ile Phe Phe Tyr Tyr Glu Ser Pro
50 55 60

Gly Arg Arg Gly Asp Ser Gly Ser Trp Pro Gly Pro Gly Arg Gln Val
65 70 75 80

Ala Leu Glu Met Gly Lys Cys Leu Cys Arg Gly Ala Glu Leu Ser Leu
85 90 95

Cys Phe Ser Phe Phe Pro Leu Leu Leu Pro Leu His Thr Pro Val Ala
100 105 110

Gly Arg Asn Leu Gly Phe Pro Glu Ser Leu Gly Val Pro Pro Phe Leu
115 120 125

Pro His Pro Gly Gly Thr Pro Arg Ala Pro Gly Leu Phe Leu Leu Leu
130 135 140

Phe Ser Phe Trp Ala Val
145 150

<210> 430
<211> 285
<212> PRT
<213> homo sapiens

<400> 430

Ser Trp Arg Thr Gly Gly Trp Ala Tyr Ala Gly Asp Arg Leu Glu Asn
1 5 10 15

Lys Thr Ser Val Ser Val Ala Ser Trp Ala Ser Ser Leu Asn Ala Arg
20 25 30

Met	Asp	Asn 35	Arg	Phe	Ala	Thr	Ala 40	Phe	Val	Ile	Ala	Cys 45	Val	Leu	Ser
Leu	Ile 50	Ser	Thr	Ile	Tyr	Met 55	Ala	Ala	Ser	Ile	Gly 60	Thr	Asp	Phe	Trp
Tyr 65	Glu	Tyr	Arg	Ser	Pro 70	Val	Gln	Glu	Asn	Ser 75	Ser	Asp	Leu	Asn	Lys 80
Ser	Ile	Trp	Asp	Glu 85	Phe	Ile	Ser	Asp	Glu 90	Ala	Asp	Glu	Lys	Thr 95	Tyr
Asn	Asp	Ala	Leu 100	Phe	Arg	Tyr	Asn	Gly 105	Thr	Val	Gly	Leu	Trp 110	Arg	Arg
Cys	Ile	Thr 115	Ile	Pro	Lys	Asn	Met 120	His	Trp	Tyr	Ser	Pro 125	Pro	Glu	Arg
Thr	Glu 130	Ser	Phe	Asp	Val	Val 135	Thr	Lys	Cys	Val	Ser 140	Phe	Thr	Leu	Thr
Glu 145	Gln	Phe	Met	Glu	Lys 150	Phe	Val	Asp	Pro	Gly 155	Asn	His	Asn	Ser	Gly 160
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Phe	Val	Ser	Leu 180	Gly	Leu	Met	Cys	Phe 185	Gly	Ala	Leu	Ile	Gly 190	Leu	Cys
Ala	Cys	Ile 195	Cys	Arg	Ser	Leu	Tyr 200	Pro	Thr	Ile	Ala	Thr 205	Gly	Ile	Leu
His	Leu 210	Leu	Ala	Gly	Leu	Cys 215	Thr	Leu	Gly	Ser	Val 220	Ser	Cys	Tyr	Val
Ala 225	Gly	Ile	Glu	Leu	Leu 230	His	Gln	Lys	Leu	Glu 235	Leu	Pro	Asp	Asn	Val 240
Ser	Gly	Glu	Phe	Gly 245	Trp	Ser	Phe	Cys	Leu 250	Ala	Cys	Val	Ser	Ala 255	Pro
Leu	Gln	Phe	Met 260	Ala	Ser	Ala	Leu	Phe 265	Ile	Trp	Ala	Ala	His 270	Thr	Asn
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